



Translations of DigComp 2.0 in the European Skills, Competences and Occupations classification (ESCO)

[Written by the ESCO Secretariat and the Joint Research Center (JRC)]
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1. Introduction

The multilingual classification of European Skills, Competences, Qualifications and Occupations (ESCO) integrates the 21 DigComp competences with its five competence areas in the ESCO skills pillar. In this document, the European Commission publishes the ESCO translation of the DigComp competence areas (Dimension 1) and their descriptors¹ together with the 21 competence titles and descriptors (Dimension 2) as they are integrated in ESCO. The translations are from English into 23 EU official languages in addition to Icelandic and Norwegian. This document does not include the Arabic version. The translations were made by the European Commission's Translation Services and then checked by ESCO's national contact officials at public employment services and employment Ministries. This report was produced in collaboration with the JRC Seville's researchers in charge of the DigComp framework and the members of the DigComp community of practice (<https://all-digital.org/invitation-to-digcomp-cop/>).

In ESCO v.1.0, DigComp is aligned with the ESCO data model. This required some changes to the original DigComp wording in order to successfully integrate it in the skills pillar. Hence, in ESCO, titles are not capitalised and they do not use a gerund form. In some cases, additional words were added to disambiguate the concepts and clearly place them in the digital domain (e.g. DigComp “Protecting devices”, ESCO “protect ICT devices”). Importantly, in the cases of “programming” and “protecting devices”, ESCO applied a different definition/description. Also, the competence area “information and data literacy” has been transformed into “digital data processing”. These changes are documented in detail here² with the list of DigComp competence descriptors (Dimension 2) and their corresponding URIs. Besides ESCO requirements, as past experiences with DigComp report translations have shown, the inevitable potential diversity of interpretations in this process may lead to different results, with minor changes being sometimes significant.

In this document, the tables display first the original DigComp formulation, the corresponding terminology used in ESCO and then the translation of the ESCO version. It is worth mentioning that the sequence of competences in this document differs from that of the DigComp framework.

The ESCO interfaces allow users to download DigComp titles and descriptors via the download page of the ESCO portal³ or access them through the ESCO API.⁴ In the near future, the ESCO portal will support filtering of the DigComp competences and competence areas through the skills group called “DigComp”. The competences will be listed in a hierarchical structure, i.e. 21 competences are classified across five competence areas and they contain various metadata, such as preferred terms in 27 languages and descriptions.

¹ Descriptors for the 5 competence areas, created by the JRC, are available on the DigComp website: <https://ec.europa.eu/jrc/en/digcomp/digital-competence-framework>.

² See https://ec.europa.eu/jrc/sites/default/files/digcomp_2_esc.pdf.

³ At <https://esco.ec.europa.eu/en/use-esco/download>, under FILTER (left side) select: Version= 1.1, Language= your choice, Type= TTL, CSV, ODS (your choice), ESCO Pillar okay, and scrolling in the list below you will find the group DigComp skills. Click on the + symbol and the corresponding file is loaded onto “Your custom package” box. Click on “Export your dataset” and you move on to the page with the Privacy Statement and other information requests. Fill them and click on “Download” at the bottom of the page. The sequence of areas and competences in the generated file does not follow their number in the DigComp framework.

⁴ At <https://esco.ec.europa.eu/en/use-esco/use-esco-services-api>, ESCO currently offers access to the classification through the ESCO web-service API and an ESCO Local API.

For any question or feedback on the ESCO DigComp translations, please contact the ESCO Secretariat: EMPL-ESCO-SECRETARIAT@ec.europa.eu

2. Translation of DIGCOMP 2.0 competence areas

2.1. Bulgarian

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	data обработка на цифрови данни	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Идентифициране, намиране, обработване, съхраняване, организиране и анализиране на цифрова информация, оценка на нейното значение и цел.
Communication and collaboration	digital communication and collaboration	цифрова комуникация и сътрудничество	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Общуване в цифрова среда, споделяне на ресурси чрез онлайн инструменти, връзка с други лица и сътрудничество чрез цифрови инструменти, взаимодействие с и участие в общности и мрежи, межкултурна осведоменост.

Digital content creation	digital content creation	създаване на цифрово съдържание	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	Създаване и редактиране на ново съдържание (от думи до образи и видео); интегриране и доразвиване на предходни знания и съдържание; създаване на креативни изразни средства, медийни продукции и програмно съдържание; разбиране и прилагане на правата и лицензите за интелектуална собственост
Safety	ICT safety	безопасност на ИКТ	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Лична защита, защита на данните, защита на дигитална самоличност, мерки за сигурност, безопасна и устойчива употреба.
Problem solving	problem-solving with digital tools	решаване на проблеми с помощта на ИКТ инструменти и хардуер	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital	Идентифициране на цифрови нужди и ресурси, вземане на информирани решения относно най-подходящите цифрови инструменти в зависимост от целта или необходимостта, решаване на концептуални проблеми чрез цифрови средства,

	to-date with the digital evolution.	means, creatively use technologies, solve technical problems, update own and other's competence.	творческо използване на технологии, решаване на технически проблеми, актуализиране на собствената и чуждата компетентност.
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2.2. CROATIAN

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	obrada digitalnih podataka	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Prepoznati, pronaći, dohvatiti, spremi, organizirati i analizirati digitalne informacije tako da se procijeni njegova relevantnost i svrha.
Communication and collaboration	digital communication and collaboration	digitalna komunikacija i suradnja	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Komunicirati u digitalnom okruženju, razmjenjivati resurse putem mrežnih alata, povezivati se s drugima i surađivati s pomoću digitalnih alata, biti u interakciji i sudjelovati u zajednicama i mrežama, međukulturna osviještenost.

			manage one's digital identity and reputation.		
Digital content creation	digital content creation	stvaranje digitalnog sadržaja	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	Stvoriti i uređivati novi sadržaj (od obrade teksta do slika i videozapisa); integrirati i ponovno razraditi prethodno znanje i sadržaj; proizvoditi kreativne izraze, medijske proizvode i programiranje; baviti se pravima i licencama intelektualnog vlasništva te ih primjenjivati.
Safety	ICT safety	sigurnost IKT-a	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Osobna zaštita, zaštita podataka, zaštita digitalnog identiteta, mjere sigurnosti, sigurna i održiva upotreba IKT-a.
Problem solving	problem-solving with digital tools	rješavanje problema s pomoću alata i hardvera za IKT	To identify needs and problems, and to resolve conceptual problems and problem situations in digital	Identify digital needs and resources, make informed decisions on most appropriate digital tools	Utvrđiti digitalne potrebe i resurse, donositi informirane odluke o najprikladnijem digitalnom alatu u skladu sa svrhom ili potrebom, riješiti

			environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	konceptualne probleme s pomoću digitalnih sredstava, kreativno upotrebljavati tehnologije, riješiti tehničke probleme, unaprijediti vlastite sposobnosti te one drugih osoba.
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2.3. CZECH

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	zpracování digitálních údajů	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Určení, lokalizování, získávání, uchovávání, uspořádání a analyzování digitálních informací a posuzování jejich významu a účelu.
Communication and collaboration	digital communication and collaboration	digitální komunikace a spolupráce	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital	Komunikace v digitálním prostředí, sdílení zdrojů prostřednictvím on-line nástrojů, spojení s ostatními a spolupráce prostřednictvím digitálních nástrojů, komunikace s

			participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	tools, interact with and participate in communities and networks, cross-cultural awareness.	komunitami a sítěmi a zapojení se do nich, zvyšování mezikulturního povědomí.
Digital content creation	digital content creation	tvorba digitálního obsahu	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	Vytváření a úprava nového obsahu (od zpracování textu po obrázky a videa); začlenění a přeformulování předchozích znalostí a obsahu; vytváření kreativních výrazů, mediálních výstupů a programů; řešení a uplatňování práv a licencí v oblasti duševního vlastnictví.
Safety	ICT safety	bezpečnost ICT	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Osobní ochrana, ochrana údajů, digitální ochrana totožnosti, bezpečnostní opatření, bezpečné a udržitelné využívání.

Problem solving	problem-solving with digital tools	řešení problémů pomocí digitálních nástrojů	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Identifikace digitálních potřeb a zdrojů, přijímání informovaných rozhodnutí o nejvhodnějších digitálních nástrojích podle účelu nebo potřeb, řešení koncepčních problémů pomocí digitálních prostředků, kreativní využívání technologií, řešení technických problémů, rozšiřování vlastních kompetencí a kompetencí druhých.
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2.4. DANISH

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	digital databehandling	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Identificere, lokalisere, hente, opbevare, tilrettelægge og analysere digitale oplysninger ud fra deres relevans og formål.

Communication and collaboration	digital communication and collaboration	digital kommunikation og kollaboration	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Kommunikere i digitale miljøer, dele ressourcer via onlineværktøjer, forbinde sig med andre og samarbejde ved hjælp af digitale værktøjer, interagere med og deltage i samfund og netværk, tværkulturel bevidsthed.
Digital content creation	digital content creation	skabelse af digitalt indhold	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	Skabe og redigere nyt indhold (fra tekstbehandling til billeder og video); integrere og genudarbejde tidligere viden og indhold; fremstille kreative udtryk, medieoutput og programmering; håndtere og anvende intellektuel ejendomsret og licenser.
Safety	ICT safety	IKT-sikkerhed	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Beskyttelse af personoplysninger, databeskyttelse, digital identitetsbeskyttelse, sikkerhedsforanstaltninger, sikker og bæredygtig anvendelse.

			social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use		
Problem solving	problem-solving with digital tools	problemløsning med IKT-værktøjer og hardware	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Identificere digitale behov og ressourcer, træffe kvalificerede beslutninger om de mest hensigtsmæssige digitale værktøjer i overensstemmelse med formålet eller behovet, løse konceptuelle problemer med digitale midler, kreativt bruge teknologier, løse tekniske problemer, ajourføre egen og andres kompetence

2.5. DUTCH

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	verwerking van digitale gegevens	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Digitale informatie in kaart brengen, lokaliseren, ophalen, opslaan, organiseren en analyseren, waarbij de relevantie en het doel ervan worden beoordeeld.
Communication and collaboration	digital communication and collaboration	digitale communicatie en samenwerking	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Communiceren in digitale omgevingen, middelen delen via online-instrumenten, verbinding leggen met anderen en samenwerken via digitale instrumenten, contacten onderhouden met en deelnemen aan gemeenschappen en netwerken, crosscultureel bewustzijn.
Safety	ICT safety	ICT-veiligheid	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to	Personal protection, data protection, digital identity protection, security	Bescherming van persoonsgegevens, gegevensbescherming, bescherming van digitale identiteit,

			be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	measures, safe and sustainable use.	beveiligingsmaatregelen, veilig en duurzaam gebruik.
Safety	ICT safety	ICT-veiligheid	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Bescherming van persoonsgegevens, gegevensbescherming, bescherming van digitale identiteit, beveiligingsmaatregelen, veilig en duurzaam gebruik.
Problem solving	problem-solving with digital tools	probleemoplossing met ICT-instrumenten en hardware	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Digitale behoeften en hulpbronnen in kaart brengen, weloverwogen beslissingen nemen over de meest geschikte digitale instrumenten op basis van het beoogde doel of de behoefte, conceptuele problemen oplossen langs digitale weg, technologieën op een creatieve wijze inzetten, technische problemen oplossen, de eigen en andermans vaardigheden actualiseren.

2.6. ESTONIAN

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	digitaalne andmetöötlus	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Digitaalse teabe kindlakstegemine, otsimine, taastamine, salvestamine, korraldamine ja analüüsimine, hinnates selle asjakohasust ja eesmärki.
Communication and collaboration	digital communication and collaboration	digitaalse teabevahetuse ja koostöö korraldamine	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Digitaalses keskkonnas suhtlemine, vahendite jagamine veebipõhiste vahendite kaudu, teistega suhtlemine ja koostöö tegemine digitaalsete vahendite kaudu, suhtlemine ja osalemine kogukondades ja võrgustikes, kultuuridevaheline teadlikkus.
Digital content creation	digital content creation	digitaalse infosisu loomine	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Uue sisu loomine ja redigeerimine (tekstitötlusest piltide ja videoteni); varasemate teadmiste ja sisu integreerimine ja ümbertöötamine; loominguliste väljenduste,

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	meediumiväljundite loomine ja programmeerimise; intellektuaalomandiõiguste ja litsentside käsitlemine ja rakendamine.
Safety	ICT safety	IKT turvalisus	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Isikukaitse, andmekaitse, digitaalne identiteedikaitse, turvameetmed, ohutu ja jätkusuutlik kasutamine.
Problem solving	problem-solving with digital tools	probleemide lahendamine digitaalsete vahendite abil	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Digitaalsete vajaduste ja ressursside kindlakstegemine, teadlike otsuste langetamine kõige asjakohasemate digitaalsete vahendite kohta vastavalt eesmärgile või vajadusele, kontseptuaalsete probleemide lahendamine digitaalsete vahendite abil, tehnoloogiate loov kasutamine, tehniliste probleemide lahendamine, enda ja teiste pädevuse ajakohastamine.

2.7. FINNISH

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	digitaalinen tietojenkäsittely	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Digitaalisen tiedon tunnistaminen, paikantaminen, hakeminen, tallentaminen ja analysoiminen sen tarkoituksenmukaisuuden ja tarkoituksen perusteella.
Communication and collaboration	digital communication and collaboration	digitaalinen viestintä ja yhteistyö	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Viestintä digitaalisessa ympäristössä, resurssien jakaminen verkkotyökalujen avulla, yhteydenpito ja yhteistyö digitaalisten välineiden avulla, vuorovaikutus ja osallistuminen yhteisöihin ja verkostoihin, kulttuurienvälinen tietoisuus.
Digital content creation	digital content creation	digitaalisen sisällön luominen	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous	Uuden sisällön luominen ja muokkaaminen (tekstin käsittelystä kuviin ja videoihin), aiemman tiedon ja sisällön integroiminen ja täsmentäminen, luovan ilmaisun

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	tuottaminen, mediatuotokset ja ohjelmointi, teollis- ja tekijänoikeuksien käsittely ja hakeminen.
Safety	ICT safety	digitaalinen turvallisuus	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Henkilötietojen suojeleminen, tietosuojat, sähköisen henkilöllisyyden suojeleminen, turvatoimet, turvallinen ja kestävä käyttö.
Problem solving	problem-solving with digital tools	ongelmanratkaisu tietojen- ja viestintätekniikalla ja työkaluilla ja laitteilla	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Digitaalisten tarpeiden ja resurssien tunnistaminen, tietoon perustuvien päätösten tekeminen soveliaimmista digitaalisista välineistä tarkoituksen tai tarpeen mukaan, käsitteellisten ongelmien ratkaisu digitaalisin keinoin, teknologioiden luova käyttö, teknisten ongelmien ratkaiseminen, oman ja muiden osaamisen päivittäminen.

2.8. FRENCH

DigComp 2.0	ESCO label	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	traitement de données numériques	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Déterminer, localiser, rechercher, stocker, organiser et analyser les informations numériques, en mesurant la pertinence et la finalité.
Communication and collaboration	digital communication and collaboration	communication et collaboration numériques	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Communiquer dans des environnements numériques, partager les ressources au moyen d'outils en ligne, établir un lien avec d'autres et collaborer au moyen d'outils numériques; interagir avec les communautés et les réseaux et y participer; sensibilisation à la dimension interculturelle.

Digital content creation	digital content creation	création de contenus numériques	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	Créer et modifier de nouveaux contenus (du traitement de texte aux images et à la vidéo); intégrer et approfondir les connaissances et le contenu antérieurs; produire des expressions créatives, des réalisations et des programmes médiatiques; tenir compte et appliquer les droits de propriété intellectuelle et les licences.
Safety	ICT safety	sécurité des TIC	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Protection des personnes, protection des données, protection de l'identité numérique, mesures de sécurité, utilisation sûre et durable.
Problem solving	problem-solving with digital tools	résolution des problèmes à l'aide d'outils et de matériel TIC	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital	Déterminer les besoins et les ressources numériques, prendre des décisions en connaissance de cause sur les outils numériques les plus appropriés en fonction de la finalité ou des besoins, résoudre les problèmes conceptuels par des

			To keep up-to-date with the digital evolution.	means, creatively use technologies, solve technical problems, update own and other's competence.	moyens numériques, utiliser les technologies de manière créative, résoudre les problèmes techniques, mettre à jour ses propres compétences et celles d'autres personnes.
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2.9. GERMAN

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	Verarbeitung digitaler Daten	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Ermitteln, Lokalisieren, Abrufen, Speichern, Organisieren und Analysieren digitaler Daten unter Berücksichtigung ihrer Relevanz und ihres Zwecks.
Communication and collaboration	digital communication and collaboration	digitale Kommunikation und Zusammenarbeit	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Kommunizieren in einem digitalen Umfeld, Teilen von Ressourcen durch Online-Tools, Vernetzung und Zusammenarbeit mit anderen mithilfe digitaler Werkzeuge, Interaktion mit und Beteiligung an Gemeinschaften und Netzen, kulturübergreifendes Bewusstsein.
Digital content creation	digital content creation	Erstellung digitaler Inhalte	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous	Erstellen und Bearbeiten neuer Inhalte (von der Textverarbeitung zu Bildern und Videos); Integrieren und Neuausarbeiten früherer Kenntnisse und Inhalte; Erstellen

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	kreativer Ausdrücke, Medienbeiträge und Programmpläne; Umgang mit und Anwendung von Rechten des geistigen Eigentums und Lizenzen.
Safety	ICT safety	IKT-Sicherheit	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Persönlicher Schutz, Datenschutz, Schutz digitaler Identitäten, Sicherheitsmaßnahmen, sichere und nachhaltige Nutzung.
Problem solving	problem-solving with digital tools	Problemlösung mit IKT-Instrumenten und Hardware	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Ermittlung digitaler Bedürfnisse und Ressourcen, Treffen fundierter Entscheidungen über die geeignetsten digitalen Instrumente entsprechend dem Zweck oder Bedarf, Lösung konzeptioneller Probleme durch digitale Mittel, kreativer Einsatz von Technologien, Lösen technischer Probleme, Auffrischen der eigenen Kompetenz und der Kompetenz anderer Personen.

2.10. GREEK

DigComp 2.0	ESCO EN	label	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	ψηφιακή επεξεργασία δεδομένων		To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Αναγνώριση, εντοπισμός, ανάκτηση, αποθήκευση, οργάνωση και ανάλυση ψηφιακών πληροφοριών, βάσει της συνάφειας και του σκοπού τους.
Communication and collaboration	digital communication and collaboration	ψηφιακή επικοινωνία και συνεργασία		To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Επικοινωνία σε ψηφιακά περιβάλλοντα, ανταλλαγή πόρων μέσω διαδικτυακών εργαλείων, σύνδεση με άλλους και συνεργασία μέσω ψηφιακών εργαλείων, αλληλεπίδραση με τις κοινότητες και τα δίκτυα και η συμμετοχή σε αυτά, διαπολιτισμική ευαισθητοποίηση.
Digital content creation	digital content creation	δημιουργία ψηφιακού περιεχομένου		To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous	Δημιουργία και επεξεργασία νέου περιεχομένου (από επεξεργασία κειμένου έως εικόνες και βίντεο). Ενσωμάτωση και επανάπτυξη προηγούμενων γνώσεων και

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	περιεχομένου. Παραγωγή δημιουργικής έκφρασης, προϊόντων μέσω επικοινωνίας και προγραμματισμός. Διαχείριση και εφαρμογή δικαιωμάτων διανοητικής ιδιοκτησίας και αδειών.
Safety	ICT safety	ασφάλεια της τεχνολογίας πληροφοριών και επικοινωνιών	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Η προσωπική προστασία, η προστασία των δεδομένων, η προστασία της ψηφιακής ταυτότητας, τα μέτρα ασφαλείας, η ασφαλής και βιώσιμη χρήση.
Problem solving	problem-solving with digital tools	επίλυση προβλημάτων με εργαλεία και εξοπλισμό της τεχνολογίας πληροφοριών και επικοινωνιών	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Προσδιορισμός των ψηφιακών αναγκών και πόρων, λήψη τεκμηριωμένων αποφάσεων σχετικά με τα πλέον κατάλληλα ψηφιακά εργαλεία ανάλογα με τον σκοπό ή την ανάγκη, επίλυση των εννοιολογικών προβλημάτων μέσω ψηφιακών μέσων, δημιουργική χρήση τεχνολογιών, επίλυση τεχνικών προβλημάτων, επικαιροποίηση των αρμοδιοτήτων των ιδίων και άλλων.

2.11. HUNGARIAN

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	digitális adatfeldolgozás	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	A digitális információk azonosítása, megtalálása, visszakeresése, tárolása, szervezése és elemzése, megítélve azok relevanciáját és célját.
Communication and collaboration	digital communication and collaboration	digitális kommunikáció és együttműködés	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Kommunikáció a digitális környezetben, erőforrások megosztása online eszközök révén, a másokkal való kapcsolattartás és együttműködés digitális eszközökkel, interakció és részvétel a közösségekben és hálózatokban, kultúrák közötti eltérések tudatossága.
Digital content creation	digital content creation	digitális tartalomgyártás	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous	Új tartalom létrehozása és szerkesztése (a szövegfeldolgozástól a képekig és videofelvételig); korábbi ismeretek és tartalmak integrálása és újbóli

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	kidolgozása; kreatív kifejezés módok, médiatartalmak és programok készítése; a szellemi tulajdonjogok és az engedélyek kezelése és alkalmazása.
Safety	ICT safety	IKT-biztonság	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Személyes védelem, adatvédelem, digitális személyazonosság védelme, biztonsági intézkedések, biztonságos és fenntartható használat.
Problem solving	problem-solving with digital tools	problémamegoldás IKT-eszközök és hardverek használatával	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Digitális szükségletek és erőforrások azonosítása, a célnak megfelelően tájékoztatás a legmegfelelőbb digitális eszközökről, a konceptuális problémák megoldása digitális eszközökkel, technológiák kreatív alkalmazása, technikai problémák megoldása, saját és mások kompetenciájának aktualizálása.

2.12. IRISH

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	próiseáil sonraí digiteacha	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Faisnéis dhigiteach a shainaitheint, a aimsiú, a stóráil, a eagrú agus a anailísiú, agus a hábharthacht agus a cuspóir a bhreithniú.
Communication and collaboration	digital communication and collaboration	cumarsáid agus comhoibriú digiteach	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Cumarsáid a dhéanamh i dtimpeallachtaí digiteacha, acmhainní a chomhroinnt trí uirlisí ar líne, naisc le daoine eile agus comhoibriú trí uirlisí digiteacha, idirghníomhú le pobail agus líonraí agus rannpháirt a ghlacadh leo, feasacht thraschultúrtha.
Digital content creation	digital content creation	inneachar digiteach chruthú a	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous	Inneachar nua a chruthú agus a chur in eagar (idir phróiseáil focal agus íomhánna agus fhíseán); eolas agus inneachar roimhe seo a chomhtháthú agus a athshaothrú;

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	nathanna cruthaitheacha, torthaí meán agus clárúchán a léiriú; plé le cearta agus le ceadúnais mhaoine intleachtúla agus iad a chur i bhfeidhm.
Safety	ICT safety	sábháilteacht TFC	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Cosaint phearsanta, cosaint sonraí, cosaint sainaitheantais dhigitigh, bearta slándála, úsáid shábháilte agus inbhuanaithe.
Problem solving	problem-solving with digital tools	fadhbanna a réiteach le huirlisí agus crua-earraí TFC	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Éilimh agus acmhainní digiteacha a shainaithint, cinntí eolasacha a dhéanamh faoi na huirlisí digiteacha is oiriúnaí de réir an chuspóra nó an éilimh, fadhbanna coincheapúla a réiteach le hacmhainní digiteacha, teicneolaíochtaí a úsáid go cruthaitheach, fadhbanna teicniúla a réiteach, inniúlacht an duine féin agus daoine eile a nuashonrú.

2.13. ICELANDIC

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	stafræn gagnavinnsla	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Þekkja, staðsetja, endurheimta, geyma, skipuleggja og greina stafrænar upplýsingar, meta mikilvægi þeirra og tilgang.
Communication and collaboration	digital communication and collaboration	stafræn samskipti og samvinna	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Samskipti í stafrænu umhverfi, deilir auðlindum með tólum á netinu, tengir við aðra og hefur samvinnu í gegnum stafræn verkfæri, átt samskipti við og tekur þátt í samfélögum og netum, þvermenningarleg vitund.
Digital content creation	digital content creation	myndun stafræns inntaks	To create and edit digital content To improve and integrate information and content into an existing body	Create and edit new content (from word processing to images and video); integrate and re-	Búðu til og breyttu nýju efni (frá ritvinnslu til mynda og myndbanda); samþætta og útfæra fyrri þekkingu og innihald; framleiða skapandi

			of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	tjáningu, fjölmiðla framreiðslu og forritun; takast á við og beita hugverkaréttindum og leyfum.
Safety	ICT safety	UST-öryggi	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Persónuvernd, gagnavernd, stafræna persónuvernd, öryggisráðstafanir, örugg og sjálfbær notkun.
Problem solving	problem-solving with digital tools	lausn vandamála með UST-verkfærum og vélbúnaði	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update	Þekkja stafrænar þarfir og auðlindir, taka upplýstar ákvarðanir um viðeigandi stafræn verkfæri í samræmi við tilganginn eða þörfina, leysa huglæg vandamál með stafrænum hætti, nota á skapandi hátt tækni, leysa tæknileg vandamál, uppfæra hæfni eigin og annarra.

				own and competence.	other's	
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2.14. ITALIAN

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	elaborazione di contenuti digitali	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Individuare, circoscrivere, recuperare, conservare, organizzare e analizzare contenuti digitali, giudicando la loro pertinenza e la loro finalità.
Communication and collaboration	digital communication and collaboration	comunicare e collaborare mediante mezzi digitali	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Comunicare in contesti digitali, condividere risorse tramite strumenti online, collegarsi con altre persone e collaborare per mezzo di strumenti digitali, interagire con comunità e reti e prendervi parte, consapevolezza interculturale.
Digital content creation	digital content creation	produrre contenuti digitali	To create and edit digital content To improve and integrate information and content into an existing body	Create and edit new content (from word processing to images and video); integrate and re-	Generare e modificare nuovi contenuti (dalla videoscrittura alle immagini e ai video); integrare e rielaborare conoscenze e contenuti

			of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	precedenti; realizzare espressioni creative, prodotti e programmi multimediali; gestire e applicare diritti di proprietà intellettuale e licenze.
Safety	ICT safety	sicurezza in ambito TIC	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Protezione individuale dei dati e dell'identità digitale, misure di sicurezza, uso sicuro e sostenibile.
Problem solving	problem-solving with digital tools	risoluzione di problemi mediante strumenti digitali	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update	Individuare necessità e risorse digitali, adottare decisioni in merito agli strumenti digitali più adeguati secondo la finalità o l'esigenza, risolvere problemi concettuali con mezzi digitali, utilizzare le tecnologie in modo creativo, risolvere problemi tecnici, aggiornare competenze proprie e altrui.

				own and other's competence.	
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2.15. LATVIAN

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	digitālu datu apstrāde	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Noteikt, atrast, izgūt, glabāt, organizēt un analizēt digitālo informāciju, vērtējot tās atbilstību un nolūku.
Communication and collaboration	digital communication and collaboration	digitālā saziņa un sadarbšanās	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Saziņa digitālajā vidē un dalīšanās ar resursiem, izmantojot tiešsaistes rīkus; sasaiste un sadarbība ar citiem lietotājiem, izmantojot digitālos rīkus; mijiedarbšanās ar kopienām un tīkliem, dalība tajos; starpkultūru izpratne.

Digital content creation	digital content creation	digitālā satura radīšana	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	Radīt un rediģēt jaunu saturu (sākot ar vārdu apstrādi un beidzot ar attēliem un video); integrēt un papildināt iepriekšējās zināšanas un saturu; veidot radošus izteiksmes līdzekļus, mediju saturu un programmas; strādāt ar intelektuālā īpašuma tiesībām un to apliecinājošiem dokumentiem, tos piemērot.
Safety	ICT safety	informācijas un komunikācijas tehnoloģiju drošība	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Personas, datu un digitālās identitātes aizsardzība, drošības pasākumi, droša un ilgtspējīga lietošana.
Problem solving	problem-solving with digital tools	problēmu risināšana, izmantojot IKT rīkus un aparatūru	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual	Apzināt digitālās vajadzības un resursus, pieņemt informācijā balstītus lēmumus par nolūkam un vajadzībām visatbilstošākajiem digitālajiem rīkiem. Risināt konceptuālas problēmas,

			and products. To keep up-to-date with the digital evolution.	problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	izmantojot digitālos līdzekļus, radoši izmantot tehnoloģijas, risināt tehniskas problēmas, kā arī pilnveidot savas un citu zināšanas.
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2.16. LITHUANIAN

DigComp 2.0	ESCO EN	label	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	skaitmeninių duomenų tvarkymas	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Nagrinėti skaitmeninės informacijos buvimo vietą, ją gauti, saugoti, tvarkyti, organizuoti ir analizuoti, sprendžiant jos svarbos ir tikslo klausimus.	
Communication and collaboration	digital communication and collaboration	skaitmeninė komunikacija ir bendradarbiavimas	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities	Komunikuoti skaitmeninėje aplinkoje, dalytis ištekliais naudojantis internetinėmis priemonėmis, užmegzti ryšį su kitais ir bendradarbiauti naudojant skaitmenines priemones, saveikauti su bendruomenėmis ir	

			digital services and participatory citizenship. To manage one's digital identity and reputation.	and networks, cross-cultural awareness.	tinklais ir jose dalyvauti, taip pat geriau informuoti apie kitas kultūras.
Digital content creation	digital content creation	skaitmeninio turinio kūrimas	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	Kurti ir redaguoti naują turinį (nuo teksto apdorojimo iki vaizdų ir vaizdo įrašų); integruoti ir patobulinti ankstesnes žinias ir turinį; kurti kūrybines išraiškas, žiniasklaidos išvestis ir vykdyti programavimą; spręsti intelektinės nuosavybės teisių ir licencijų klausimus bei jas taikyti.
Safety	ICT safety	informacinių ir ryšių technologijų (IRT) sauga	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Asmens apsauga, duomenų apsauga, skaitmeninės tapatybės apsauga, saugumo priemonės, saugus ir tvarus naudojimas.

Problem solving	problem-solving with digital tools	problemų sprendimas naudojant IRT priemones ir kompiuterinę aparatinę įrangą	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Nustatyti skaitmeninius poreikius ir išteklius, priimti informaciją pagrįstus sprendimus dėl tinkamiausių skaitmeninių priemonių atsižvelgiant į tikslą ar poreikį, spręsti konceptualias problemas skaitmeninėmis priemonėmis, kūrybiškai naudoti technologijas, spręsti technines problemas, atnaujinti savo ir kitas kompetencijos sritis.
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2.17. MALTESE

DigComp 2.0	ESCO EN	label	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	ipproċessar ta'	data diġitali	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Identifika, sib, irkupra, aħžen, organizza u analizza l-informazzjoni diġitali, filwaqt li tiġġudika r-rilevanza u l-għan tagħha.

Communication and collaboration	digital communication and collaboration	komunikazzjoni u kollaborazzjoni diġitali	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Il-Komunikazzjoni f'ambjenti diġitali, il-kondiviżjoni ta' riżorsi permezz ta' għodod online, ir-rabta ma' oħrajn u kollaborazzjoni permezz ta' għodod diġitali, l-interazzjoni ma' komunitajiet u networks u l-parteciġazzjoni fihom, is-sensibilizzazzjoni interkulturali.
Digital content creation	digital content creation	ħolqien ta' kontenut diġitali	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	Oħloq u editja kontenut ġdid (mill-word processing għal immaġnijiet u vidjo); integra u elabora mill-ġdid għarfien u kontenut ta' qabel; ipproduċi espressjonijiet kreattivi, outputs tal-midja u pprogrammar; indirizza u applika d-drittijiet u l-liċenzji tal-proprjetà intellettuali.
Safety	ICT safety	sigurtà tal-ICT	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion.	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Il-protezzjoni personali, il-protezzjoni tad-data, il-protezzjoni tal-identità diġitali, il-miżuri ta' sigurtà, l-użu sikur u sostenibbli.

			To be aware of the environmental impact of digital technologies and their use		
Problem solving	problem-solving with digital tools	soluzzjoni ta' problemi permezz ta' għodod diġitali	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Identifika l-ħtiġijiet u r-riżorsi diġitali, f'hu deċiżjonijiet informati dwar l-aktar għodod diġitali xierqa skont l-iskop jew il-ħtieġa, solvi l-problemi kunċettwali permezz ta' mezzi diġitali, uża t-teknoloġiji b'mod kreattiv, solvi l-problemi tekniċi, aġġorna l-kompetenza tiegħek u tal-oħrajn.

2.18. NORWEGIAN

DigComp 2.0	ESCO EN	label	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing		digital databehandling	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and	Identify, locate, retrieve, store, organise and analyse digital information,	Identifisere, finne, hente, lagre, organisere og analysere digitale opplysninger og vurdere opplysningenes relevans og formål.

			its content. To store, manage, and organise digital data, information and content.	judging its relevance and purpose	
Communication and collaboration	digital communication and collaboration	digital kommunikasjon og digitalt samarbeid	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Kommunisere i digitale miljøer, dele ressurser via nettverktøy, lenke til andre og samarbeide med digitale verktøy, samhandle og delta i samfunn og nettverk, tverrkulturell bevissthet.
Digital content creation	digital content creation	opprettelse av digitalt innhold	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	Skape og redigere nytt innhold (tekst-, bilde- og videobehandling); integrere og gjenbruke tidligere kunnskap og innhold; produsere kreative uttrykk, utsending av medier og programmering; håndtere og bruke immaterialrettigheter og lisenser.
Safety	ICT safety	IKT-sikkerhet	To protect devices, content, personal data and privacy in digital environments. To	Personal protection, data protection, digital identity protection, security	Personlig beskyttelse, vern av personopplysninger, vern av digital

			protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	measures, safe and sustainable use.	identitet, sikkerhetstiltak, sikker og bærekraftig bruk.
Problem solving	problem-solving with digital tools	problemløsing med IKT-verktøy og -maskinvare	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Identifisere digitale behov og ressurser, treffe informerte beslutninger om de mest hensiktsmessige digitale verktøyene for formålet, løse konseptuelle problemer med digitale virkemidler, bruke teknologi kreativt, løse tekniske problemer, heve egen og andres kompetanse.

2.19. POLISH

DigComp 2.0	ESCO EN	label	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing		przetwarzanie danych cyfrowych	To articulate information needs, to locate and retrieve	Identify, locate, retrieve, store, organise and	Określanie, lokalizacja, pobieranie, przechowywanie, porządkowanie i

			digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	analyse digital information, judging its relevance and purpose	analizowanie informacji cyfrowych, wraz z oceną ich adekwatności i celowości.
Communication and collaboration	digital communication and collaboration	współpraca i komunikacja cyfrowa	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Komunikacja w środowiskach cyfrowych, udostępnianie zasobów za pomocą narzędzi internetowych, nawiązywanie kontaktów z innymi i współpraca za pomocą narzędzi cyfrowych, komunikacja ze społecznościami i sieciami i udział w nich, świadomość międzykulturowa.
Digital content creation	digital content creation	tworzenie treści cyfrowych	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	Tworzenie i edytowanie nowych treści (od przetwarzania słów do obrazów i nagrań wideo); łączenie i ponowne opracowanie wcześniejszej wiedzy i treści; tworzenie twórczych wyrażań, danych wyjściowych dla mediów i programowanie; radzenie sobie z prawami własności intelektualnej i licencjami oraz ich stosowanie.

Safety	ICT safety	zasady bezpieczeństwa ICT	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Ochrona osobista, ochrona danych, ochrona tożsamości cyfrowej, środki bezpieczeństwa, bezpieczne i zrównoważone stosowanie.
Problem solving	problem-solving with digital tools	rozwiązywanie problemów przy wykorzystaniu narzędzi i sprzętu ICT	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Określenie potrzeb i zasobów cyfrowych, podejmowanie świadomych decyzji dotyczących najodpowiedniejszych narzędzi cyfrowych w zależności od celu lub potrzeby, rozwiązywanie problemów koncepcyjnych za pomocą środków cyfrowych, twórcze wykorzystanie technologii, rozwiązywanie problemów technicznych, aktualizacja kompetencji własnych i innych osób.

2.20. PORTUGUESE

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	tratamento de dados digitais	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Identificar, localizar, recuperar, armazenar, organizar e analisar informações digitais, avaliar a sua pertinência e finalidade.
Communication and collaboration	digital communication and collaboration	comunicação e colaboração digitais	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Comunicar em ambientes digitais, partilhar recursos através de ferramentas em linha, estabelecer ligações com outros e colaborar através de ferramentas digitais, interagir com comunidades e redes e participar nas mesmas, sensibilização intercultural.
Digital content creation	digital content creation	criação de conteúdos digitais	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous	Criar e editar novos conteúdos (do processamento de texto a imagens e vídeos); integrar e reelaborar conhecimentos e conteúdos anteriores; produzir expressões

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	criativas, produções e programação dos meios de comunicação social; lidar com e aplicar direitos de propriedade intelectual e licenças.
Safety	ICT safety	segurança TIC	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Proteção pessoal, proteção de dados, proteção da identidade digital, medidas de segurança, utilização segura e sustentável.
Problem solving	problem-solving with digital tools	resolução de problemas com a ajuda de ferramentas e equipamentos TIC	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Identificar as necessidades e os recursos digitais, tomar decisões informadas sobre as ferramentas digitais mais adequadas, em função do objetivo ou da necessidade, resolver problemas conceptuais através de meios digitais, utilizar de forma criativa as tecnologias, resolver problemas técnicos, atualizar a sua própria competência e outras competências.

2.21. ROMANIAN

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	procesarea datelor digitale	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Identifică, localizează, extrage, stochează, organizează și analizează informații digitale, estimând relevanța și scopul acestora.
Communication and collaboration	digital communication and collaboration	comunicare și colaborare digitală	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Comunică în medii digitale, partajează resurse prin instrumente online, stabilește legături cu alte persoane și colaborează prin intermediul instrumentelor digitale, interacționează cu și participă în comunități și rețele, sensibilizare interculturală.
Digital content creation	digital content creation	creare de conținut digital	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous	Creează și editează conținut nou (de la prelucrare de text la imagini și conținut video); integrează și elaborează din nou cunoștințe și conținut anterior; produce expresii

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	creative, conținut mediatic și programare; se ocupă de și depune cereri pentru drepturi și licențe de proprietate intelectuală.
Safety	ICT safety	siguranță TIC	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Protecția personală, protecția datelor, protecția identității digitale, măsuri de securitate, utilizarea sigură și durabilă.
Problem solving	problem-solving with digital tools	soluționarea problemelor cu și instrumente hardware TIC	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Identifică nevoi și resurse digitale, ia decizii în cunoștință de cauză cu privire la cele mai adecvate instrumente digitale în funcție de scop sau necesitate, rezolvă probleme conceptuale prin mijloace digitale, utilizează în mod creativ tehnologii, rezolvă probleme tehnice, actualizează propria competență și cea a celorlalte persoane.

2.22. SLOVAK

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	spracovanie digitálnych údajov	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Identifikovať, lokalizovať, vyhľadávať, uchovávať, organizovať a analyzovať digitálne informácie, pričom sa posudzuje ich význam a účel.
Communication and collaboration	digital communication and collaboration	digitálna komunikácia a spolupráca	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Komunikovať v digitálnom prostredí, vymieňať si zdroje prostredníctvom online nástrojov, spájať sa s inými a spolupracovať prostredníctvom digitálnych nástrojov, komunikovať s komunitami a sieťami a zúčastňovať sa na nich, zvyšovanie medzikultúrneho povedomia.
Digital content creation	digital content creation	tvorba digitálneho obsahu	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous	Vytvárať a upravovať nový obsah (od spracovania textu po obrázky a videá); integrovať a prepracovať predchádzajúce znalosti a obsah; vytvárať kreatívne výrazy, mediálne

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	výstupy a programovanie; zaoberať sa právami na duševné vlastníctvo a licenciami a uplatňovať ich.
Safety	ICT safety	bezpečnosť IKT	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Osobná ochrana, ochrana údajov, ochrana digitálnej identity, bezpečnostné opatrenia, bezpečné a udržateľné využívanie.
Problem solving	problem-solving with digital tools	riešenie problémov pomocou nástrojov hardvéru IKT a	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Identifikovať digitálne potreby a zdroje, prijímať informované rozhodnutia o najvhodnejších digitálnych nástrojoch podľa účelu alebo potreby, riešiť koncepčné problémy prostredníctvom digitálnych prostriedkov, tvorivo využívať technológie, riešiť technické problémy, aktualizovať vlastnú spôsobilosť a spôsobilosť iných.

2.23. SLOVENIAN

DigComp 2.0	ESCO EN	label	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing		obdelava digitalnih podatkov	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Opredeliti, poiskati, pridobiti, shranjevati, organizirati in analizirati digitalne informacije ter pri tem presojati njihovo ustreznost in namen.
Communication and collaboration	digital communication and collaboration		digitalno sporazumevanje in sodelovanje	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Sporazumevanje v digitalnih okoljih, izmenjava virov s spletnimi orodji, povezava z drugimi stranmi in sodelovanje prek digitalnih orodij, vzajemno delovanje s skupnostmi in mrežami ter sodelovanje v njih, medkulturna ozaveščenost.
Digital content creation	digital content creation		ustvarjati digitalne vsebine	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous	Ustvarjati in urejati nove vsebine (od obdelave besed do slik in videoposnetkov); povezovati in ponovno oblikovati predhodno znanje in vsebine; uprizoriti

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	ustvarjalne izraze, ustvariti medijske vsebine in načrtovati programe; obravnavati in uporabljati pravice intelektualne lastnine in licence.
Safety	ICT safety	varnost IKT	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Osebna zaščita, varstvo podatkov, digitalna zaščita identitete, varnostni ukrepi, varna in trajnostna uporaba.
Problem solving	problem-solving with digital tools	reševanje problemov z orodji in strojno opremo IKT	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Opredeliti digitalne potrebe in vire, sprejeti informirane odločitve o najprimernejših digitalnih orodjih glede na namen ali potrebo, reševati konceptualne probleme z digitalnimi pripomočki, ustvarjalno uporabljati tehnologije, reševati tehnične težave, posodabljeni lastne in druge kompetence.

2.24. SPANISH

DigComp 2.0	ESCO EN	label	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing		tratamiento digital de los datos	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Identificar, localizar, recuperar, almacenar, organizar y analizar información digital, evaluando su pertinencia y su propósito.
Communication and collaboration	digital communication and collaboration		comunicación y colaboración digitales	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	La comunicación en entornos digitales, el intercambio de recursos a través de herramientas en línea, el enlace con otras personas y la colaboración a través de herramientas digitales, la interacción con las comunidades y redes y la participación en las mismas, así como la sensibilización intercultural.
Digital content creation	digital content creation		creación de contenidos digitales	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous	Crear y editar contenido nuevo (desde procesamiento de texto hasta imágenes y video); integrar y reelaborar conocimientos y contenidos previos; producir

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	expresiones creativas, salidas de medios y programación; tratar y aplicar derechos de propiedad intelectual y licencias.
Safety	ICT safety	seguridad de las tecnologías de la información y de las comunicaciones	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Protección personal, protección de datos, protección de la identidad digital, medidas de seguridad, uso seguro y sostenible.
Problem solving	problem-solving with digital tools	resolución de problemas con herramientas digitales	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Identificar las necesidades y los recursos digitales, tomar decisiones informadas sobre las herramientas digitales más adecuadas en función de su finalidad o necesidad, resolver los problemas conceptuales a través de medios digitales, utilizar de forma creativa tecnologías, resolver problemas técnicos, actualizar la competencia propia y de otros.

2.25. SWEDISH

DigComp 2.0	ESCO label EN	Translated label	DigComp descriptor	ESCO description EN	Translated description
Information and data literacy	digital data processing	digital databehandling	To articulate information needs, to locate and retrieve digital data, information and content. To judge the relevance of the source and its content. To store, manage, and organise digital data, information and content.	Identify, locate, retrieve, store, organise and analyse digital information, judging its relevance and purpose	Identifiera, lokalisera, hitta, hämta, lagra, organisera och analysera digital information och samtidigt bedöma dess relevans och ändamål.
Communication and collaboration	digital communication and collaboration	kommunicera och samarbeta digitalt	To interact, communicate and collaborate through digital technologies while being aware of cultural and generational diversity. To participate in society through public and private digital services and participatory citizenship. To manage one's digital identity and reputation.	Communicate in digital environments, share resources through online tools, link with others and collaborate through digital tools, interact with and participate in communities and networks, cross-cultural awareness.	Kommunicera i digitala miljöer, dela resurser med hjälp av internetbaserade verktyg, skapa länkar med andra och samarbeta via digitala verktyg, interagera med och delta i samhällen och nätverk samt interkulturell medvetenhet.
Digital content creation	digital content creation	skapa innehåll med mjukvara	To create and edit digital content To improve and integrate information and content into an existing body of knowledge while	Create and edit new content (from word processing to images and video); integrate and re-elaborate previous	Skapa och redigera nytt innehåll (från ordbehandling till bilder och video); integrera och specificera om tidigare kunskaper och innehåll; framställa kreativa uttryck,

			understanding how copyright and licences are to be applied. To know how to give understandable instructions for a computer system	knowledge and content; produce creative expressions, media outputs and programming; deal with and apply intellectual property rights and licences.	mediamaterial och programmering; arbeta med och tillämpa immateriella rättigheter och licenser.
Safety	ICT safety	IKT-säkerhet	To protect devices, content, personal data and privacy in digital environments. To protect physical and psychological health, and to be aware of digital technologies for social well-being and social inclusion. To be aware of the environmental impact of digital technologies and their use	Personal protection, data protection, digital identity protection, security measures, safe and sustainable use.	Personligt skydd, dataskydd, skydd av den digitala identiteten, säkerhetsåtgärder samt säker och hållbar användning.
Problem solving	problem-solving with digital tools	problemlösning med IKT-verktyg och maskinvara	To identify needs and problems, and to resolve conceptual problems and problem situations in digital environments. To use digital tools to innovate processes and products. To keep up-to-date with the digital evolution.	Identify digital needs and resources, make informed decisions on most appropriate digital tools according to the purpose or need, solve conceptual problems through digital means, creatively use technologies, solve technical problems, update own and other's competence.	Identifiera digitala behov och resurser, fatta informerade beslut om de lämpligaste digitala verktygen beroende på syfte eller behov, lösa konceptuella problem med digitala medel, använda tekniker på ett kreativt sätt, lösa tekniska problem, uppdatera egen och andras kompetens.

3. Translation of DIGCOMP competences

In the following tables, the sequence in which the 21 DigComp competences are presented is not the same as in the DigComp framework. In order to facilitate identifying the specific competences we added here below their DigComp framework number.

DigComp number and label
5.1 Solving technical problems
2.3 Engaging in citizenship through digital technologies
5.3 Creatively using digital technologies
1.2 Evaluating data, information and digital content
3.4 Programming
5.4 Identifying digital competence gaps
2.4 Collaborating through digital technologies
4.2 Protecting personal data and privacy
2.2 Sharing through digital technologies
5.2 Identifying needs and technological responses
1.3 Managing data, information and digital content
3.2 Integrating and re-elaborating digital content

3.1 Developing digital content
2.5 Netiquette
2.1 Interacting through digital technologies
3.3 Copyright and licences
2.6 Managing digital identity
4.4 Protecting the environment
4.3 Protecting health and well-being
4.1 Protecting devices
1.1 Browsing, searching and filtering data, information and digital content

3.1. Bulgarian

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	разрешаване на технически проблеми	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Идентифицира технически проблеми при използването на устройства и цифрови среди, както и тяхното решаване (от откриване на причините до решаване на по-сложни проблеми).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	участване в обществения живот чрез цифровите технологии	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Участва в обществото чрез използването на публични и частни цифрови услуги. Търси възможности за самостоятелно предоставяне на права и за активно гражданско участие чрез подходящи цифрови технологии.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	творческо използване на цифровите технологии	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Използва цифрови инструменти и технологии за създаване на познания и иновационни процеси и продукти. Взима участие поотделно и колективно в познавателните процеси, за да разбере и разреши концептуални проблеми и

					problems and problem situations in digital environments.	проблемни ситуации в цифровата среда.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	оценяване на данни, информация и цифрово съдържание	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Анализира, сравнява и прави критична оценка на достоверността и надеждността на източниците на данни, информация и цифрово съдържание. Анализира, тълкува и прави критична оценка на данните, информацията и цифровото съдържание.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	компютърно програмиране	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Техниките и принципите на разработването на софтуер, например анализ, алгоритми, кодиране, тестване и съставяне на парадигми за програмиране (напр. обектно-ориентирано програмиране, функционално програмиране) и на езиците за програмиране.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	идентифициране на пропуски в цифровата компетентност	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Разбира кога е необходимо да се подобри или поднови собствената цифрова компетентност. Може да подкрепя другите да развият собствена цифрова компетентност. Търси

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	възможности за самостоятелно развитие и следи непрекъснато развитията в цифровата сфера.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	сътрудничене чрез цифровите технологии	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Използва цифрови инструменти и технологии за процесите на сътрудничество, както и за съвместно изграждане и съвместно създаване на ресурси и знания.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	защита на личните данни и неприкосновеността на личния живот	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Защитава личните данни и неприкосновеността на личния живот в цифровата среда. Разбира как да използва и споделя информация, която може да разкрива самоличност, като същевременно умее да защитава себе си и други хора от щети. Разбира, че цифровите услуги използват „политика за поверителност“, за да съобщят как се използват личните данни.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-	share through digital technologies	споделяне чрез цифровите технологии	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Споделя данни, информация и цифрово съдържание с други чрез подходящи цифрови технологии. Изпълнява ролята на посредник, познава

	2dca53290ff4				about referencing and attribution practices.	практиките за съотнасяне и приписване.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	идентифициране на нуждите и технологичните решения	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Оценява нуждите и идентифицира, оценява, подбира и използва цифрови инструменти и възможни технологични отговори за разрешаването им. Приспособява и персонализира цифровата среда към личните нужди (напр. достъпност).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	управляване на данни, информация и цифрово съдържание	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Организира, съхранява и извлича данни, информация и съдържание в цифрова среда. Организира ги и ги преработват в структурирана среда.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	интегриране и редактиране на цифрово съдържание	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Променя, усъвършенства, подобрява и интегрира информация и съдържание в съществуващо тяло от знания за създаване на ново, оригинално и подходящо съдържание и знания.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	разработване на цифрово съдържание	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Създава и редактира цифрово съдържание в различни формати, изразява себе си чрез цифрови средства.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	използване на норми на поведение при онлайн общуване	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Прилага поведенчески норми и ноу-хау при работа с цифрови технологии и взаимодействия в цифровите среди. Адаптира комуникационните стратегии към конкретната аудитория и се информира за културното и възрастово многообразие в цифровите среди.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	осъществяване на взаимодействие чрез цифровите технологии	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Взаимодейства чрез различни цифрови технологии и разбира подходящите цифрови комуникационни средства за даден контекст.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	авторски права и лицензи, свързани с цифрово съдържание	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Разбиране на начина, по който авторското право и лицензите се прилагат за данни, информация и цифрово съдържание.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	управляване на цифрова самоличност	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Създава и управлява една или повече цифрови самоличности; способност да защитава собствената си репутация, да обработва произведените данни чрез няколко цифрови инструмента, среди и услуги.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	опазване на околната среда от въздействието на цифровите технологии	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Познава въздействието на цифровите технологии върху околната среда и тяхната употреба.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	опазване на здравето и благополучието чрез използване на цифровите технологии	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Способност да избягва рискове за здравето и заплахи за физическото и психическото здраве при използване на цифрови технологии. Способност да защитава себе си и другите от възможни опасности в цифровата среда (напр. кибертормоз). Познава цифровите технологии за социално благополучие и приобщаване.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	обезпечаване на защита и сигурност на ИКТ устройства	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Обезпечава устройства и цифрово съдържание, както и разбира рисковете и заплахите в цифрови среди. Информираност за мерките за безопасност и защита и надлежно отчитане на надеждността и неприкосновеността на личния живот. Използва инструменти и методи, които увеличават в максимална степен сигурността на ИКТ устройствата и информацията чрез контролиране на достъпа, например пароли, цифрови подписи, биометрия и защита на системи като защитна стена, антивирусна защита, спам филтри.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		преглеждане, търсене и филтриране на данни, информация и цифрово съдържание	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Формулира нужди от информация, търси данни, информация и съдържание в цифрова среда, достъп до тях и навигация между тях. Създава и актуализира стратегии за персонално търсене.

3.2. Croatian

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	rješavati probleme tehničke	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Utvrdjivati tehničke probleme pri upravljanju uređajima i upotrebi digitalnih okruženja te ih rješavati (od rješavanja problema do rješavanja složenijih problema).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	aktivno djelovati kao građanin s pomoću digitalnih tehnologija	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Sudjelovati u društvu upotrebom javnih i privatnih digitalnih usluga. Tražiti mogućnosti za samoosnaživanje i za participativno građanstvo s pomoću odgovarajućih digitalnih tehnologija.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	kreativno se koristiti digitalnim tehnologijama	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Upotreba digitalnih alata i tehnologija za stvaranje znanja i inovativnih procesa i proizvoda. Uključiti se individualno i kolektivno u kognitivnoj obradi kako bi razumjeli i riješili konceptualne probleme i problematične

					problems and problem situations in digital environments.	situacije u digitalnim okruženjima.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	ocjenjivati podatke, informacije i digitalni sadržaj	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analizirati, uspoređivati i kritički ocjenjivati vjerodostojnost i pouzdanost izvora podataka, informacija i digitalnog sadržaja. Analizirati, tumačiti i kritički ocjenjivati podatke, informacije i digitalni sadržaj.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	računalno programiranje	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Tehnike i načela razvoja softvera, kao što su analiza, algoritmi, kodiranje, testiranje i sastavljanje programskih paradigmi (primjerice, objektno orijentirano programiranje, funkcijsko programiranje) te programskih jezika.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	utvrditi nedostatke u pogledu digitalnih kompetencija	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Razumjeti kada je potrebno poboljšati ili ažurirati vlastitu digitalnu kompetenciju. Moći pružiti potporu drugima u razvoju njihovih digitalnih kompetencija. Tražiti mogućnosti za vlastiti razvoj i

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	biti u tijeku s digitalnom evolucijom.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	suradivati s pomoću digitalnih tehnologija	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Upotrebljavati digitalne alate i tehnologije za suradničke postupke te za zajedničku izgradnju i zajedničko stvaranje resursa i znanja.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	štititi osobne podatke i privatnost	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Štititi osobne podatke i privatnost u digitalnim okruženjima. Razumjeti kako upotrebljavati i dijeliti osobne podatke koji se mogu identificirati dok istodobno možete zaštititi sebe i druge od štete. Razumjeti da digitalne usluge podrazumijevaju „politiku zaštite privatnosti” kako bi informirale o načinu upotrebe osobnih podataka.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	dijeliti s pomoću digitalnih tehnologija	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Dijeliti podatke, informacije i digitalni sadržaj s drugima s pomoću odgovarajućih digitalnih tehnologija. Djelovati kao posrednik, znati o praksama referenciranja i dodjeljivanja.

					about referencing and attribution practices.	
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	utvrditi potrebe i odgovore u kontekstu primjene tehnologija	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Procijeniti potrebe te utvrditi, ocijeniti, odabrati i upotrebljavati digitalne alate i moguće tehnološke odgovore radi njihova rješavanja. Prilagoditi digitalna okruženja osobnim potrebama (primjerice, pristupačnost).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	upravljati podacima, informacijama i digitalnim sadržajem	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organizirati, pohranjivati i dohvaćati podatke, informacije i sadržaj u digitalnim okruženjima. Organizirati i obraditi ih u strukturiranom okruženju.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrirati i iznova razraditi digitalni sadržaj	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Izmijeniti, usavršavati, poboljšati i integrirati informacije i sadržaj u postojeći izvor znanja kako bi se stvorio novi, originalan i relevantan sadržaj i znanje.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	razvijati digitalni sadržaj	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Stvarati i uređivati digitalni sadržaj u različitim formatima, izražavati se digitalnim sredstvima.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	primjenjivati pravila ponašanja na internetu	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Primjenjivati standarde ponašanja i vještine tijekom upotrebe digitalnih tehnologija i interakcije u digitalnim okruženjima. Prilagođavati strategije komunikacije određenoj publici i biti svjesni kulturne i generacijske raznolikosti u digitalnim okruženjima.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	komunicirati s pomoću digitalnih tehnologija	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Komunicirati s različitim digitalnim tehnologijama i razumjeti odgovarajuća digitalna komunikacijska sredstva za određeni kontekst.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	autorska prava i licence povezane s digitalnim sadržajem	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Razumjeti kako se autorsko pravo i licence primjenjuju na podatke, informacije i digitalni sadržaj.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	upravljati digitalnim identitetom	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Stvarati i upravljati jednim ili više digitalnih identiteta, moći zaštititi vlastiti ugled, nositi se s podacima koje osoba proizvodi s pomoću nekoliko digitalnih alata, okruženja i usluga.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	štititi okoliš od učinka digitalnih tehnologija	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Biti svjesni utjecaja digitalnih tehnologija i njihove upotrebe na okoliš.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	štititi zdravlje i dobrobit tijekom uporabe digitalnih tehnologija	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Biti u stanju izbjeći zdravstvene rizike i prijetnje tjelesnoj i psihološkoj dobrobiti tijekom upotrebe digitalnih tehnologija. Biti u stanju zaštititi sebe i druge od mogućih opasnosti u digitalnim okruženjima (npr. zlostavljanje na internetu). Biti svjesni značenja digitalnih tehnologija za socijalnu dobrobit i socijalnu uključenost.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	štititi uređaje za IKT	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Štititi uređaje i digitalni sadržaj te razumjeti rizike i prijetnje u digitalnim okruženjima. Upoznati se sa sigurnosnim i zaštitnim mjerama te uzimati u obzir pouzdanost i privatnost. Upotrebljavati alate i metode koji maksimalno povećavaju sigurnost IKT uređaja i informacija upravljanjem pristupom, kao što su lozinke, digitalni potpisi, biometrija i zaštitom sustava, kao što je vatrozid, antivirusni program, filtri za neželjenu elektroničku poštu.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		pregledavati, pretraživati i filtrirati podatke, informacije i digitalni sadržaj	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Izražavati potrebe za informacijama, pretraživati podatke, informacije i sadržaje u digitalnim okruženjima, pristupiti im i kretati se između njih. Izrađivati i ažurirati osobne strategije pretraživanja.

3.3. Czech

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	řešit technické problémy	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Identifikovat technické problémy při používání zařízení a používání digitálního prostředí a řešit je (od odstraňování poruch až po řešení složitějších problémů).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	zapojovat se do občanského života prostřednictvím digitálních technologií	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Zapojovat se do společenského života prostřednictvím veřejných a soukromých digitálních služeb. Prostřednictvím vhodných digitálních technologií hledat příležitosti k seberealizaci a k aktivnímu občanství.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	využívat digitální technologie kreativně	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Využívat digitální nástroje a technologie k vytváření znalostí a k inovování postupů a produktů. Zapojit se jednotlivě a kolektivně do kognitivního zpracování s cílem pochopit a řešit koncepční problémy

					problems and problem situations in digital environments.	a problematické situace v digitálním prostředí.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	vyhodnocovat údaje, informace a digitální obsah	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analyzovat, porovnávat a kriticky hodnotit důvěryhodnost a spolehlivost zdrojů dat, informací a digitálního obsahu. Analyzovat, interpretovat a kriticky hodnotit údaje, informace a digitální obsah.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	počítačové programování	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Techniky a zásady vývoje softwaru, jako je analýza, algoritmy, kódování, testování a sestavování programovacích paradigmat (např. programování zaměřené na účel, funkční programování) a programovací jazyky.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	identifikovat nedostatky v digitálních kompetencích	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Být si vědomi oblastí digitálních kompetencí, které je třeba zlepšit nebo osvěžit. Mít schopnost podporovat ostatní při rozvoji jejich digitálních kompetencí. Hledat příležitosti

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	pro vlastní rozvoj a držet krok s digitálním vývojem.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	spolupracovat prostřednictvím digitálních technologií	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Využívat digitální nástroje a technologie pro spolupráci, společnou výstavbu a společnou tvorbu zdrojů a znalostí.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	chránit osobní údaje a soukromí	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Chránit osobní údaje a soukromí v digitálním prostředí. Chápat, jak používat a sdílet informace, na jejichž základě lze identifikovat určitou osobu, a zároveň jak chránit sebe a jiné osoby před újmou. Pochopit, že digitální služby využívají „pravidla ochrany údajů“ k informování o tom, jak jsou osobní údaje využívány.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	sdílet prostřednictvím digitálních technologií	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Sdílet data, informace a digitální obsah s dalšími pomocí vhodných digitálních technologií. Jednat jako zprostředkovatel, znát referenční a přiřazovací postupy.

					about referencing and attribution practices.	
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	identifikovat potřeby a technologická řešení	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Vyhodnocovat potřeby a určovat, hodnotit, vybírat a využívat digitální nástroje a možná technologická řešení za účelem jejich vyřešení. Upravit a přizpůsobit digitální prostředí osobním potřebám (např. dostupnost).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	spravovat údaje, informace a digitální obsah	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organizovat, uchovávat a získávat data, informace a obsah v digitálním prostředí. Organizovat a zpracovávat je ve strukturovaném prostředí.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrovat a opětovně zpracovávat digitální obsah	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Měnit, zdokonalovat, zpracovávat a začleňovat informace a obsah do stávajícího souboru znalostí s cílem vytvořit nový, původní a relevantní obsah a znalosti.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	vytvářet digitální obsah	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Vytvářet a upravovat digitální obsah v různých formátech, vyjadřovat se digitálními prostředky.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	používat zásady netikety	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Uplatňovat behaviorální normy a know-how v rámci používání digitálních technologií a interakcí v digitálním prostředí. Přizpůsobovat komunikační strategie konkrétním adresátům a uvědomovat si kulturní a generační rozmanitost v digitálním prostředí.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	interagovat prostřednictvím digitálních technologií	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Interagovat prostřednictvím různých digitálních technologií a rozumět vhodným digitálním komunikačním prostředkům pro daný kontext.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	autorská práva a licence související s digitálním obsahem	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Porozumění tomu, jak se autorské právo a licence vztahují na údaje, informace a digitální obsah.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	spravovat digitální identitu	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Vytvořit a spravovat jednu nebo více digitálních identit, být schopen chránit vlastní reputaci, zabývat se daty, která osoba vytváří, prostřednictvím několika digitálních nástrojů, prostředí a služeb.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	chránit životní prostředí před vlivem digitálních technologií	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Znát dopad digitálních technologií na životní prostředí a jejich používání.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	zajišťovat ochranu zdraví a dobré pracovní podmínky při používání digitálních technologií	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Být schopni vyhnout se zdravotním rizikům a hrozbám ohrožujícím tělesnou a duševní pohodu při používání digitálních technologií. Být schopni chránit sebe i ostatní před možnými riziky v digitálním prostředí (např. kybernetickou šikanou). Znát digitální technologie pro sociální blahobyt a sociální začlenění.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	chránit zařízení IKT	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Chránit zařízení a digitální obsah a chápat rizika a hrozby v digitálním prostředí. Seznámit se s bezpečnostními a ochrannými opatřeními a řádně zohlednit spolehlivost a soukromí. Využívat nástroje a metody, které maximalizují bezpečnost zařízení a informací v oblasti informačních a komunikačních technologií prostřednictvím kontroly přístupu, jako jsou hesla, digitální podpisy, biometrie a ochrany systémů, jako je firewall, antivirový systém, filtry proti spamu.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		prohlížet si, vyhledávat a filtrovat údaje, informace a digitální obsah	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Formulovat informační potřeby, vyhledávat údaje, informace a obsah v digitálním prostředí, zajišťovat k nim přístup a orientovat se v nich. Vytvářet a aktualizovat osobní strategie pro vyhledávání.

3.4. Danish

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	løse tekniske problemer	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Identificere tekniske problemer i forbindelse med drift af udstyr og brug af digitale miljøer og løse dem (fra problemløsning til løsning af mere komplekse problemer).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	indgå i medborgerskab digitale teknologier aktivt via	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Deltagelse i samfundet gennem brug af offentlige og private digitale tjenester. Søge muligheder for selvindflydelse og for aktivt medborgerskab gennem passende digitale teknologier.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	anvende digitale teknologier kreativt	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Anvende digitale værktøjer og teknologier til at skabe viden og til at forny processer og produkter. Engager sig individuelt og kollektivt i kognitive processer for at forstå og løse begrebsmæssige problemer

					problems and problem situations in digital environments.	og problemsituationer i digitale miljøer.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	evaluere data, oplysninger og digitalt indhold	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analysere, sammenligne og kritisk vurdere troværdigheden og pålideligheden af kilder til data, information og digitalt indhold. Analysere, fortolke og kritisk vurdere data, oplysninger og digitalt indhold.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	computerprogrammering	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Teknikker og principper for softwareudvikling, såsom analyse, algoritmer, kodning, test og opstilling af programmeringsparadigmer (f.eks. objektorienteret programmering eller funktionel programmering) og programmeringssprog.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	identificere manglende digitale kompetencer	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Forstå, hvor der er behov for at forbedre eller opdatere sin egen digitale kompetence. Kunne støtte andre med udvikling af deres digitale kompetencer. Søge muligheder for selvudvikling

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	og holde trit med den digitale udvikling.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	samarbejde ved hjælp af digitale teknologier	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Anvende digitale værktøjer og teknologier til samarbejdsprocesser og til fælles opbygning og skabelse af ressourcer og viden.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	beskytte personoplysninger og privatlivets fred	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Beskytte personoplysninger og privatlivets fred i digitale miljøer. Forstå, hvordan man bruger og deler personligt identificerbare oplysninger, og være i stand til at beskytte sig selv og andre mod skader. Forstå, at digitale tjenester anvender en "databeskyttelsespolitik" for at informere om, hvordan personoplysninger anvendes.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	dele ved hjælp af digitale teknologier	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Udveksle data, oplysninger og digitalt indhold med andre ved hjælp af passende digitale teknologier. Optræde som formidler, vide, hvad der skal anvendes som reference- og attributionspraksis.

					about referencing and attribution practices.	
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	identificere behov og teknologiske løsninger	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Vurdere behov og identificere, evaluere, udvælge og anvende digitale værktøjer og mulige teknologiske løsninger til at løse dem. Tilpasse og finjustere det digitale miljø til personlige behov (f.eks. tilgængelighed).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	forvalte data, oplysninger og digitalt indhold	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organisere, lagre og hente data, oplysninger og indhold i digitale miljøer. Tilrettelægge og behandle dem i et struktureret miljø.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrere og videreudvikle digitalt indhold	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Ændre, raffinere, forbedre og integrere oplysninger og indhold i en eksisterende mængde viden for at skabe nyt, originalt og relevant indhold og viden.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	udvikle digitalt indhold	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Oprette og redigere digitalt indhold i forskellige formater og udtrykke sig ved hjælp af digitale midler.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	overholde konventioner for etikette på internettet	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Anvende adfærdsnormer og knowhow ved brug af digitale teknologier og interaktion i digitale miljøer. Tilpasse kommunikationsstrategier til det specifikke publikum og være opmærksomme på den kulturelle og generationsmæssige mangfoldighed i digitale miljøer.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	interagere via digitale teknologier	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Interagere via en række forskellige digitale teknologier og forstå passende digitale kommunikationsmidler i en given kontekst.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	ophavsret og licenser i forbindelse med digitalt indhold	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Have en forståelse af, hvordan ophavsret og licenser finder anvendelse på data, information og digitalt indhold.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	administrere identitet digital	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Oprette og forvalte en eller flere digitale identiteter, være i stand til at beskytte ens eget omdømme, behandle de data, som et produkt frembringer gennem flere digitale værktøjer, miljøer og tjenester.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	beskytte miljøet mod de digitale teknologiers indvirkning	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Være opmærksom på de digitale teknologiers og deres anvendelses indvirkning på miljøet.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	beskytte sundhed og velfærd i forbindelse med anvendelse af digitale teknologier	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Være i stand til at undgå sundhedsrisici og trusler mod fysisk og psykisk velvære under anvendelse af digitale teknologier. Være i stand til at beskytte sig selv og andre mod mulige farer i det digitale miljø (f.eks. cybermobning). Være opmærksom på digitale teknologier i forbindelse med social velfærd og social inklusion.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	beskytte IKT-enheder	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Beskytte enheder og digitalt indhold og forstå risici og trusler i digitale miljøer. Kende til sikkerheds- og sikringstiltag og tage behørigt hensyn til pålidelighed og privatlivets fred. Gøre brug af værktøjer og metoder, der maksimerer sikkerheden af IKT-udstyr og information ved at styre adgangen, f.eks. adgangskoder, digitale signaturer, biometri og beskyttelsessystemer såsom firewall, antivirus, spamfiltre.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		browse, søge efter og filtrere data, oplysninger og digitalt indhold	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Beskrive informationsbehov, søge efter data, information og indhold i digitale miljøer, få adgang til dem og navigere mellem dem. Oprette og opdatere personlige søgestrategier.

3.5. Dutch

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	technische problemen oplossen	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Technische problemen in kaart brengen bij het gebruik van apparaten en bij het gebruik van digitale omgevingen, en deze problemen oplossen (van troubleshooting tot het oplossen van complexere problemen).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	digitale technologie gebruiken voor actief burgerschap	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participatie aan de samenleving door het gebruik van openbare en particuliere digitale diensten. Zoeken naar mogelijkheden voor zelfredzaamheid en voor participierend burgerschap via passende digitale technologieën.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	creatief gebruikmaken van digitale technologieën	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Gebruikmaken van tools en technologieën om kennis en innovatieve processen en producten te creëren. Individueel en collectief deelnemen aan cognitieve verwerking om conceptuele problemen en probleemsituaties

					problems and problem situations in digital environments.	in digitale omgevingen te begrijpen en op te lossen.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	gegevens, informatie en digitale inhoud evalueren	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	De geloofwaardigheid en betrouwbaarheid van gegevensbronnen, informatie en digitale inhoud analyseren, vergelijken en kritisch beoordelen. De gegevens, informatie en digitale inhoud analyseren, interpreteren en kritisch beoordelen.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	computerprogrammering	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Technieken en beginselen van softwareontwikkeling, waaronder analyse, algoritmes, coderen, testen en ontwerpen van programmeerparadigma's (bijvoorbeeld objectgeoriënteerd programmeren, functioneel programmeren) en programmeertalen.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	digitale vaardigheidskloven herkennen	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Begrijpen op welke vlakken de eigen digitale competentie verbeterd of geactualiseerd moet worden. In staat zijn anderen te ondersteunen bij het ontwikkelen van hun digitale competentie. Zoeken naar

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	mogelijkheden voor zelfontwikkeling en op de hoogte blijven van de digitale evolutie.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	samenwerken met behulp van digitale technologieën	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Digitale hulpmiddelen en technologieën gebruiken voor samenwerking en voor het gezamenlijk ontwikkelen en creëren van middelen en kennis.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	persoonlijke gegevens en privacy beschermen	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a “Privacy policy” to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a “Privacy policy” to inform how personal data is used.	Persoonlijke gegevens en privacy beschermen in digitale omgevingen. Begrijpen hoe persoonlijk identificeerbare informatie te gebruiken en te delen en hoe zichzelf en anderen te beschermen tegen schade. Begrijpen dat digitale diensten gebruikmaken van een ‘privacybeleid’ om mee te delen hoe persoonsgegevens worden gebruikt.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	delen met behulp van digitale technologieën	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Gegevens, informatie en digitale inhoud met anderen delen door middel van passende digitale technologieën. Als tussenpersoon optreden, op de hoogte zijn van de relatering en de toeschrijving van referenties.

					about referencing and attribution practices.	
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	behoeften identificeren en relevante technologische oplossingen aandragen	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Vaststellen van behoeften en identificeren, beoordelen, selecteren en gebruiken van digitale instrumenten en van eventuele technologische oplossingen om deze op te lossen. Digitale omgevingen instellen en aanpassen aan persoonlijke behoeften (bv. toegankelijkheid).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	gegevens, informatie en digitale inhoud beheren	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Gegevens, informatie en inhoud in digitale omgevingen organiseren, opslaan en ophalen. Organiseer en verwerk deze in een gestructureerde omgeving.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	digitale inhoud combineren en verwerken	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Het wijzigen, verfijnen, verbeteren en integreren van informatie en inhoud in bestaande kennis om nieuwe, originele en relevante inhoud en kennis te creëren.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	digitale inhoud ontwikkelen	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Digitale inhoud in verschillende formaten creëren en bewerken, met behulp van digitale middelen.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	online afspraken inzake netiquette toepassen	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Gedragsregels en knowhow toepassen bij het gebruik van digitale technologieën en interactie in digitale omgevingen. De communicatiestrategieën aanpassen aan het specifieke publiek en zich bewust zijn van de culturele en generatie diversiteit in digitale omgevingen.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	communiceren met behulp van digitale technologieën	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Communiceren door middel van een verscheidenheid aan digitale technologieën en het begrijpen van geschikte digitale communicatiemiddelen voor een bepaalde context.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	copyright en licenties voor digitale inhoud	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Begrip van auteursrechten en licenties en de wijze waarop ze van toepassing zijn op gegevens, informatie en digitale inhoud.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	digitale identiteiten beheren	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Eén of meerdere digitale identiteiten creëren en beheren, in staat zijn de eigen reputatie te beschermen, kunnen omgaan met de gegevens die men via verschillende digitale tools, omgevingen en diensten produceert.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	de invloed van digitale technologieën op het milieu beperken	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Bewust zijn van de milieueffecten van digitale technologieën en het gebruik ervan.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	gezondheid en welzijn beschermen bij het gebruik van digitale technologieën	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Gezondheidsrisico's en bedreigingen voor het fysieke en psychische welzijn kunnen vermijden door gebruik te maken van digitale technologieën. Zichzelf en anderen kunnen beschermen tegen mogelijke gevaren in digitale omgevingen (bijvoorbeeld cyberpesten). Bewust zijn van digitale technologieën voor sociaal welzijn en sociale integratie.

					social well-being and social inclusion.	
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT ICT-toestellen beschermen	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Apparaten en digitale inhoud beschermen en de risico's en bedreigingen in verband met digitale omgevingen begrijpen. Kennis hebben van veiligheids- en beveiligingsmaatregelen en de nodige aandacht besteden aan betrouwbaarheid en privacy. Gebruik maken van tools en methoden die de beveiliging van ICT-apparaten en informatie maximaliseren via toegangscontroles zoals wachtwoorden, digitale handtekeningen en biometrie en via beveiligingssystemen zoals firewalls, antivirussoftware en spamfilters.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content	gegevens, informatie en digitale inhoud verkennen, zoeken en filteren	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Behoeften aan informatie te kennen geven, zoeken naar gegevens, informatie en inhoud in digitale omgevingen, deze raadplegen en ertussen navigeren. Persoonlijke zoekstrategieën creëren en actualiseren.

3.6. Estonian

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	tehnilisi probleeme lahendama	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Seadmete käitamisel ja digitaalsete keskkondade kasutamisel tehniliste probleemide tuvastamine ja lahendamine (tõrkeotsingust keerukamate probleemide lahendamiseni).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	digitaaltehnoloogia abil kodanikuõigusi kaitsma	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Avalike ja erasektori digitaalteenuste kasutamise kaudu ühiskonnas osalemine. Asjakohaste digitaaltehnoloogiate abil eneseteostuse ja kodanikuosaluse võimaluste otsimine.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	digitaaltehnoloogiat loovalt kasutama	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Teadmiste loomiseks ning protsesside ja toodete uuendamiseks digitaalsete vahendite ja tehnoloogiate kasutamine. Digitaalsete keskkondade kontseptuaalsete probleemide ja probleemolukordade mõistmiseks ja

					problems and problem situations in digital environments.	lahendamiseks individuaalne ja kollektiivne kognitiivne mõtlemine.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	andmete, teabe ja digitaalset sisu hindama	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Andmete, teabe ja digitaalse sisu allikate usaldusväärsuse ja usaldatavuse analüüsimine, võrdlemine ja kriitiline hindamine. Andmete, teabe ja digitaalse sisu allikate analüüsimine, tõlgendamine ja kriitiline hindamine.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	arvutiprogrammeerimine	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Tarkvara arendamise meetodid ja põhimõtted, näiteks analüüsimine, algoritmide, kodeerimine, katsetamine ning programmeerimisparadigmade (nt objektile suunatud programmeerimine, funktsionaalne programmeerimine) ja programmeerimiskeelte koostamine.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	digitaalse pädevuse lünki tuvastama	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Mõistmine, kuidas täiustada või uuendada oma digipädevust. Suutlikkus toetada teisi digitaalse pädevuse arendamisel. Enesearendamise võimaluste

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	otsimine ja kursisolek digitaalse arenguga.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	digitaaltehnoloogia kaudu koostööd korraldama	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Digivahendite ja digitaaltehnoloogiate kasutamine koostööprotsessides ning ressursside ja teadmiste koosloomisel.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	isikuandmeid ja privaatsust kaitsma	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a “Privacy policy” to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a “Privacy policy” to inform how personal data is used.	Isikuandmete ja privaatsuse kaitse digitaalkeskkondades. Mõistmine, kuidas kasutada ja jagada tuvastatavat isikuteavet, et kaitsta ennast ja teisi kahju eest. Mõistmine, et digiteenused teatavad privaatsusteatega, kuidas kasutatakse isikuandmeid.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	digitaaltehnoloogia kaudu sisu jagama	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Andmete, teabe ja digitaalse infosisu jagamine asjakohaste digitaaltehnoloogiate kaudu. Tegutsemine vahendajana, viitamise ja omistamise tavade tundmine.

					about referencing and attribution practices.	
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	vajadusi ja tehnoloogilisi lahendusi kindlaks tegema	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Vajaduste hindamine ja nende täitmiseks digitaalsete vahendite ja võimalike tehnoloogiliste lahenduste kindlakstegemine, hindamine, valimine ja kasutamine. Digitaalse keskkonna kohandamine ja reguleerimine vastavalt isiklikele vajadustele (nt ligipääsetavus).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	andmeid, teavet ja digitaalset sisu haldama	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Andmete, teabe ja sisu haldamine, säilitamine ja taastamine digitaalsetes keskkondades. Nende organiseerimine ja töötlemine struktureeritud keskkonnas.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	digitaalset sisu integreerima ja kohandama	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Teabe ja sisu muutmine, täpsustamine, parandamine ja integreerimine olemasolevasse teadmiste kogumisse, et luua uus, originaalne ja asjakohane sisu ja teave.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	digitaalset sisu arendama	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Eri vormingutes digitaalse sisu loomine ja muutmine, enda väljendamine digitaalsete vahendite abil.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	veebis kasutatavast netiketist kinni pidama	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Digitehnoloogia kasutamise ja digikeskkonnas suhtlemise käitumisnormide ja oskusteabe rakendamine. Suhtlusstrateegiate kohandamine konkreetsele sihtrühmale ning kultuurilise ja põlvkondade mitmekesisusega arvestamine digikeskkonnas.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	digitaal tehnoloogia kaudu suhtlema	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Suhtlemine eri digitaal tehnoloogiate kaudu ja teadlikkus konkreetsetes kontekstis asjakohastest digitaalsetest suhtlusvahenditest.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	digitaalse sisuga seotud autoriõigused ja litsentsid	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Autoriõiguste ja litsentside andmete, teabe ja digitaalse sisu suhtes kohalduvuse mõistmine.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	digitaalset identiteeti haldama	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Ühe või mitme digitaalse identiteedi loomine ja haldamine, oma maine kaitsmine ning tegelemine andmetega, mida toodetakse mitmete digitaalsete vahendite, keskkondade ja teenuste kaudu.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	keskkonda digitaaltehnoloogia eest kaitsma mõju	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Digitehnoloogiate ja nende kasutamise keskkonnamõju teadvustamine.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	digitaaltehnoloogia kasutamisel tervist ja heaolu kaitsma	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Oskus vältida digitehnoloogiaid kasutades terviseriske ning füüsilist ja psühholoogilist heaolu ähvardavaid ohte. Oskus kaitsta ennast ja teisi digikeskkonnas esineda võivate ohtude, näiteks küberkiusamise eest. Teadlikkus sotsiaalset heaolu ja kaasatust toetavatest digitehnoloogiatest.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	IKT seadmeid kaitsma	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Seadmete ja digitaalse turve ning digitaalsete keskkondade võimalike riskide ja ohtude mõistmine. Teadlikkus ohutus- ja turvameetmetest ning usaldusväärsuse ja privaatsuse nõuetekohane arvessevõtmine. Asjaomaste vahendite ja meetodite kasutamine IKT-seadmete ja teabe turvalisuse suurendamiseks, tagades juurdepääsu kontrolli, näiteks salasõnad, digitaalallkirjad, biomeetrilised andmed ja muud kaitsesüsteemid, näiteks tulemüürid, viirusetõrje ja rämpspostifiltrid.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		andmeid, teavet ja digitaalset sisu sirvima, otsima ja sõeluma	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Teabevajaduste sõnastamine, andmete, teabe ja sisu otsimine digitaalkeskkonnas, neile juurdepääsemine ja neis navigeerimine. Isiklike otsingustrateegiatega loomine ja uuendamine.

3.7. Finnish

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	ratkaista teknisiä ongelmia	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Sellaisten teknisten ongelmien tunnistamien, jotka liittyvät laitteiden ja digitaalisten ympäristöjen käyttöön, ja niiden ratkaiseminen (ongelman tunnistamisesta monimutkaisten ongelmien ratkaisuun).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	harjoittaa kansalaisuuttaan digitaalitekniikan avulla	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Yhteiskunnan toimintaan osallistuminen julkisten ja yksityisten digitaalisten palvelujen avulla. Oman arvontunton ja osallistavaan kansalaisuuteen liittyvien mahdollisuuksien etsiminen oma-aloitteisesti digitaalitekniikan avulla.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	käyttää digitaalitekniikkaa luovasti	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand	Digitaalisten välineiden ja tekniikan käyttäminen tiedon tuottamiseen sekä prosessien ja tuotteiden luomiseen. Osallistuminen itsenäisesti ja yhdessä kognitiiviseen käsittelyyn, jonka tarkoituksena on käsitteellisten ongelmien ja

					and resolve conceptual problems and problem situations in digital environments.	ongelmatilanteiden ratkaisemisen digitaalisessa ympäristössä.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	arvioida dataa, tietoa ja digitaalista sisältöä	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Datan, tiedon ja digitaalisen sisällön lähteen luotettavuuden analysointi, vertailu ja kriittinen arviointi. Datan, tiedon ja digitaalisen sisällön luotettavuuden analysointi, vertailu ja kriittinen arviointi.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	tietokoneohjelmointi	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Ohjelmistojen kehittämisen tekniikat ja periaatteet, kuten analyysi, algoritmit, koodaus, ohjelmointijärjestelmien ja ohjelmointikielten testaus ja laadinta (esim. kohdesuuntautunut ohjelmointi, toiminnallinen suunnittelu).
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-	identify digital competence gaps	tunnistaa digitaalisen osaamisen puutteet	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence	Oman digitaalisen osaamisen puutteiden ja kehityskohteiden tunnistaminen. Kyky tukea muita heidän pyrkimyksissään digitaalisen osaamisen kehittämiseen. Itsekehitysmahdollisuuksien

	cf24d3a236e7			and to keep up-to-date with the digital evolution.	development. Seek opportunities for self-development and keep up-to-date with the digital evolution.	etsiminen ja digitalisaatioon liittyvien uutisten seuraaminen.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	tehdä yhteistyötä digitaalitekniikan välityksellä	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Käyttää digitaalisia välineitä ja teknologioita yhteistyöprosesseissa sekä voimavarojen ja tietämyksen laatuun ja luomisessa yhdessä.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	suojata henkilötietoja ja yksityisyyttä	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Suojata henkilötietoja ja yksityisyyttä digitaalisessa ympäristössä. Ymmärtää, miten voi käyttää ja jakaa tietoja, joista henkilöllisyys on tunnistettavissa, ja samalla suojella itseään ja muita. Ymmärtää, että digitaalisten palveluiden tietosuojaselosteissa kerrotaan, miten henkilötietoja käytetään.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-	share through digital technologies	jakaa digitaalitekniikan välityksellä	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Jakaa dataa, tietoja ja digitaalista sisältöä muiden kanssa soveltuvien digitaalitekniikoiden avulla. Toimia välittäjänä ja tuntea

	2dca53290ff4				about referencing and attribution practices.	viittaus- ja attribuutiokäytännöt.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	tunnistaa tarpeet ja löytää niihin teknologisia ratkaisuja	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Arvioida tarpeita ja yksilöidä, arvioida, valita ja käyttää digitaalisia välineitä ja mahdollisia teknologisia ratkaisuja niiden täyttämistä varten. Säätää ja mukauttaa digitaaliympäristöjä henkilökohtaisiin tarpeisiin (esim. saavutettavuus).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	hallinnoida dataa, tietoja ja digitaalista sisältöä	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Järjestää, tallentaa ja hakea dataa, tietoa ja sisältöä digitaalisissa ympäristöissä. Organisoida ja käsitellä niitä jäsennellyssä ympäristössä.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integroida ja kehittää edelleen digitaalista sisältöä	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Muokata, hioa, parantaa ja integroida tietoja ja sisältöä tietopankkiin, jolloin voidaan luoda uutta, alkuperäistä ja oleellista sisältöä ja tietoa.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	kehittää digitaalista sisältöä	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Luoda ja muokata digitaalista sisältöä eri formaateissa, ilmaista itseään digitaalisin keinoin.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	noudattaa verkkoetikettiä	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Noudattaa käyttäytymissääntöjä ja niihin liittyvää tietotaitoa digitaalista teknologiaa käyttäessä ja tehdessä yhteistyötä digitaalisessa ympäristössä. Mukauttaa viestintästrategioita tiettyyn yleisöön sopivaksi ja ottaa huomioon kulttuurinen ja sukupolvien välinen monimuotoisuus digitaalisessa ympäristössä.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	olla vuorovaikutuksessa digitaalitekniikan välityksellä	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Olla vuorovaikutuksessa erilaisten digitaalitekniikan välityksellä ja ymmärtää asianmukaiset digitaalisen viestinnän keinot tietyssä kontekstissa.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	digitaaliseen sisältöön liittyvät tekijänoikeudet ja lisenssit	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Sen ymmärtäminen, miten tekijänoikeuksia ja lisenssejä sovelletaan dataan, tietoihin ja digitaaliseen sisältöön.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	hallinnoida digitaalista identiteettiä	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Yhden tai useamman digitaalisen identiteetin luominen ja ylläpitäminen, oman maineen suojeleminen, itsetuotetun datan hallinnointi erilaisilla digitaalisilla työkaluilla, ympäristöillä ja palveluilla.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	suojella ympäristöä digitaalitekniologioiden vaikutukselta	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Tuntea digitaalitekniologian ja sen käytön ympäristövaikutukset.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	käyttää digitaalitekniologioita ottaen huomioon terveyttä ja hyvinvointia koskevat näkökohdat	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Osata välttää terveysriskejä ja fyysiseen ja henkiseen hyvinvointiin kohdistuvia uhkia digitaalitekniikkaa käytettäessä. Osata suojella itseä ja muita vaaroilta (esim. verkkokiusaaminen), joita voi esiintyä digitaalisissa ympäristöissä. Olla tietoinen sosiaalista hyvinvointia ja sosiaalista osallisuutta edistävästä digitaalitekniologiasta.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	suojata tieto- ja viestintätekniset laitteet	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Suojata laitteita ja digitaalista sisältöä sekä ymmärtää digitaaliympäristöissä esiintyviä riskejä ja uhkia. Tuntea turvatoimenpiteet ja ottaa asianmukaisesti huomioon luotettavuus ja yksityisyyden suoja. Hyödyntää välineitä ja menetelmiä, joilla maksimoidaan tieto- ja viestintäteknii­kan laitteiden ja tietojen turvallisuus valvomalla käyttöoikeuksia esimerkiksi salasanoilla, digitaalisilla allekirjoituksilla ja biometrisillä tunnistajilla, sekä käyttämällä suojajärjestelmiä, kuten palomuuria, viruksentorjuntaohjelmia ja roskapostisuodattimia.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		selata, hakea ja lajitella dataa, tietoa ja digitaalista sisältöä	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Selvittää tietotarpeita, etsiä dataa, tietoa ja sisältöä digitaalisessa ympäristössä, päästä tutustumaan niihin ja liikkua niiden välillä. Luoda ja päivittää henkilökohtaisia hakustrategioita.

3.8. French

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	résoudre des problèmes techniques	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Identifier des problèmes techniques lors de l'utilisation des dispositifs et d'environnements numériques et les résoudre (du dépannage à la résolution de problèmes plus complexes).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	s'engager dans des actions citoyennes au moyen de technologies numériques	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	S'engager dans des actions citoyennes par le biais de services numériques publics et privés. Rechercher des possibilités d'autonomisation et de citoyenneté participative au moyen des technologies numériques appropriées.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	utiliser des technologies numériques de façon créative	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Utiliser des outils et des technologies numériques pour créer des connaissances et développer des processus et des produits innovants. S'engager individuellement et collectivement en matière de traitement cognitif pour comprendre et résoudre les

					problems and problem situations in digital environments.	problèmes conceptuels et les situations problématiques dans des environnements numériques.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	évaluer des données, des informations et des contenus numériques	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analyser, comparer et évaluer d'un œil critique la crédibilité et la fiabilité des sources de données, d'informations et de contenus numériques. Analyser, interpréter et évaluer de manière critique les données, les informations et les contenus numériques.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	programmation informatique	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Les techniques et les principes du développement de logiciels, tels que l'analyse, les algorithmes, le codage, les tests et la compilation des modèles de programmation (programmation orientée objet ou programmation fonctionnelle, par exemple) et des langages de programmation.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-	identify digital competence gaps	identifier les déficits de compétences numériques	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence	Comprendre où il convient d'améliorer ou de mettre à jour ses propres compétences numériques. Être en mesure de soutenir les autres dans le développement de leurs compétences numériques.

	cf24d3a236e7			and to keep up-to-date with the digital evolution.	development. Seek opportunities for self-development and keep up-to-date with the digital evolution.	Rechercher des possibilités de développement personnel et se tenir informé des évolutions numériques.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	mener des collaborations au moyen de technologies numériques	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Utiliser les outils et technologies numériques pour les processus collaboratifs, et pour la co-élaboration et la co-création de ressources et de connaissances.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	protéger des données à caractère personnel et la vie privée	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a “Privacy policy” to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a “Privacy policy” to inform how personal data is used.	Protéger les données à caractère personnel et la vie privée dans les environnements numériques. Comprendre comment utiliser et partager des renseignements personnels tout en étant capable de se protéger, et de protéger autrui, contre les atteintes. Comprendre que les services numériques utilisent une «politique en matière de protection de la vie privée» pour expliquer comment les données à caractère personnel sont utilisées.
Sharing through	http://data.europa.eu/esco/skill/4000	share through digital technologies	participer à des échanges au moyen de technologies numériques	To share data, information and digital content with others through appropriate digital technologies. To	Share data, information and digital content with others through	Partager des données, des informations et du contenu numérique avec d'autres au

digital technologies	1d93-8937-4859-89d5-2dca53290ff4			act as an intermediary, to know about referencing and attribution practices.	appropriate digital technologies. Act as an intermediary, know about referencing and attribution practices.	moyen des technologies numériques appropriées. Agir en tant qu'intermédiaire, connaître les pratiques de référencement et d'attribution.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	recenser des besoins et déterminer leurs solutions technologiques	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Analyser les besoins et recenser, évaluer, sélectionner et utiliser des outils numériques et des solutions technologiques possibles pour les résoudre. Ajuster et adapter les environnements numériques aux besoins personnels (par exemple, l'accessibilité).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	gérer des données, des informations et des contenus numériques	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organiser, stocker et récupérer des données, des informations et des contenus dans des environnements numériques. Les organiser et les traiter dans un environnement structuré.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-	integrate and re-elaborate digital content	intégrer et ré-élaborer des contenus numériques	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create	Modifier, affiner, améliorer et intégrer les informations et le contenu dans un ensemble de connaissances existant afin de créer un contenu et des

	0d3140c6c22e				new, original and relevant content and knowledge.	connaissances nouveaux, originaux et pertinents.
Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	élaborer des contenus numériques	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Créer et éditer des contenus numériques sous différents formats, s'exprimer par des moyens numériques.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	utiliser les conventions en ligne de la netiquette	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Appliquer des normes et un savoir-faire en matière de comportement dans le cadre de l'usage des technologies numériques et de l'interaction dans des environnements numériques. Adapter les stratégies de communication au public spécifique et tenir compte de la diversité culturelle et générationnelle dans les environnements numériques.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	interagir au moyen de technologies numériques	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Interagir au moyen d'une série de technologies numériques et comprendre des moyens de communication numériques appropriés dans un contexte donné.

Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-f425c6ffdc82	copyright and licenses related to digital content	droits d'auteur et autorisations liées à des contenus numériques	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Comprendre comment les droits d'auteur et les licences s'appliquent aux données, aux informations et au contenu numérique.
Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	gérer une identité numérique	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Créer et gérer une ou plusieurs identités numériques, être en mesure de protéger sa propre réputation, traiter les données produites par plusieurs outils, environnements et services numériques.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	protéger l'environnement des effets de technologies numériques	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Avoir conscience de l'incidence environnementale des technologies numériques et de leur utilisation.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	protéger la santé et le bien-être lors de l'utilisation des technologies numériques	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible	Être en mesure d'éviter les risques pour la santé et les menaces au bien-être physique et psychologique lors de l'utilisation des technologies numériques. Être en mesure de se protéger et de protéger les autres contre les dangers possibles

				technologies for social well-being and social inclusion.	dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for social well-being and social inclusion.	des environnements numériques (par exemple, la cyberintimidation). Prendre conscience des technologies numériques pour le bien-être social et l'inclusion sociale.
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	protéger les dispositifs TIC	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protéger les dispositifs et les contenus numériques, et analyser les risques et les menaces dans le monde numérique. Être au fait des mesures de sûreté et de sécurité et observer rigoureusement les exigences de fiabilité et de confidentialité. Utiliser des outils et des méthodes qui optimisent la sécurité des dispositifs informatiques et des informations qu'ils contiennent en contrôlant l'accès, comme les mots de passe, les signatures numériques, la biométrie et les systèmes de protection tels que les pare-feux, les anti-virus et les filtres antispam.
Browsing, searching and filtering data, information	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-	browse, search and filter data, information and digital content		tirer parti de données, d'informations et de contenus numériques par la navigation, les recherches et le filtrage	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them.
						Formuler les besoins en information, rechercher des données, des renseignements et du contenu dans des environnements numériques, y accéder et naviguer entre eux. Créer et mettre à jour des

and digital content	afdc740b48cf				Create and update personal search strategies.	stratégies de recherche personnelle.
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3.9. German

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	technische Probleme lösen	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Technische Probleme bei der Nutzung von Geräten und digitalen Umgebungen ermitteln und (von der Fehlersuche bis hin zur Lösung komplexerer Probleme) lösen.
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	mithilfe digitaler Technologien an gesellschaftlichen Entscheidungsprozessen partizipieren	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Durch die Nutzung öffentlicher und privater digitaler Dienste an der Gesellschaft teilhaben. Nach Möglichkeiten zur Selbstermächtigung und zur partizipativen Bürgerschaft durch geeignete digitale Technologien suchen.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4c	creatively use digital technologies	digitale Technologien kreativ einsetzen	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage	Use digital tools and technologies to create knowledge and to	Digitale Werkzeuge und Technologien einsetzen, um Wissen zu schaffen und

	c54f-1e53-442b-a6d2-1682dc8ef8f9			individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Verfahren und Produkte zu innovieren. Individuell und kollektiv an der kognitiven Verarbeitung teilnehmen, um konzeptionelle Probleme und Problemsituationen in einem digitalen Umfeld zu verstehen und zu lösen.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	Daten, Informationen und digitale Inhalte bewerten	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Die Glaubwürdigkeit und Zuverlässigkeit von Datenquellen, Informationen und digitalen Inhalten analysieren, vergleichen und kritisch bewerten. Daten, Informationen und digitale Inhalte analysieren, auslegen und kritisch bewerten.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	Computerprogrammierung	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Techniken und Grundsätze der Softwareentwicklung wie Analyse, Algorithmen, Programmierung, Testen und Kompilieren von Programmierparadigmen (z. B. objektorientierte Programmierung, Funktionsprogrammierung) und von Programmiersprachen.

Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	Defizite bei der digitalen Kompetenz ermitteln	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development and to keep up-to-date with the digital evolution.	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek opportunities for self-development and keep up-to-date with the digital evolution.	Verstehen, wo die eigene digitale Kompetenz verbessert oder aktualisiert werden muss. In der Lage sein, andere bei der Entwicklung ihrer digitalen Kompetenzen zu unterstützen. Möglichkeiten suchen, sich selbst zu entwickeln und mit der digitalen Entwicklung auf dem neuesten Stand zu halten.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	mithilfe digitaler Technologien zusammenarbeiten	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Einsatz digitaler Werkzeuge und Technologien für kollaborative Prozesse und zur gemeinsamen Gestaltung und Nutzung von Ressourcen und Wissen.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	persönliche Daten und Privatsphäre schützen	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Schutz persönlicher Daten und der Privatsphäre in digitalen Umgebungen. Verstehen der Nutzung und Verbreitung personenbezogener Daten sowie die Fähigkeit, sich selbst und andere vor Schäden zu schützen. Verständnis dafür, dass digitale Dienste „Datenschutzbestimmungen“ verwenden, um darüber zu informieren, wie

						personenbezogene Daten verwendet werden.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	mithilfe digitaler Technologien teilen	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know about referencing and attribution practices.	Weitergabe von Daten, Informationen und digitalen Inhalten an andere durch geeignete digitale Technologien. Ansprechpartner, der sich mit Verweisen und Quellenangaben auskennt.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	Bedarf ermitteln und technologische Lösungen finden	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Einschätzung des Bedarfs, Identifizierung, Bewertung, Auswahl und Nutzung digitaler Hilfsmittel, Ermittlung möglicher technologischer Lösungen. Individuelle Anpassung der digitalen Umgebung an persönliche Bedürfnisse (z. B. Barrierefreiheit).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	Daten, Informationen und digitale Inhalte verwalten	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organisation, Speicherung und Abruf von Daten, Informationen und Inhalten in einem digitalen Umfeld. Ihre Organisation und Verarbeitung in einem strukturierten Umfeld.

Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	digitale Inhalte integrieren und umarbeiten	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Änderung, Verfeinerung, Verbesserung und Integration von Informationen und Inhalten in einen bestehenden Wissensfundus, um neue, originelle und relevante Inhalte und neues, originelles und relevantes Wissen zu schaffen.
Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	digitale Inhalte entwickeln	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Erstellen und Bearbeiten digitaler Inhalte in unterschiedlichen Formaten; sich durch digitale Mittel ausdrücken.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	Netiquette beachten	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Anwenden von Verhaltensnormen und Wissen bei der Nutzung digitaler Technologien und beim Interagieren in einem digitalen Umfeld. Anpassung der Kommunikationsstrategien an die jeweilige Zielgruppe, Bewusstsein für die unterschiedlichen Kulturen und Generationen in der digitalen Welt.
Interacting through	http://data.europa.eu/esco/skill/a12057b4-6d11-	interact through digital technologies	mithilfe digitaler Technologien interagieren	To interact through a variety of digital technologies and to understand	Interact through a variety of digital technologies and understand	Interagieren mithilfe einer Vielzahl digitaler Technologien und Verstehen der für einen bestimmten

digital technologies	4a12-ab8e-15a028ef0a6d			appropriate digital communication means for a given context.	appropriate digital communication means for a given context.	Kontext geeigneten digitalen Kommunikationsmittel.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-f425c6ffdc82	copyright and licenses related to digital content	Urheberrechte und Lizenzen im Zusammenhang mit digitalen Inhalten verstehen	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Verständnis, wie Urheberrechte und Lizenzen auf Daten, Informationen und digitale Inhalte anwendbar sind.
Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	digitale Identität verwalten	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Erstellung und Verwaltung einer oder mehrerer digitaler Identitäten; Fähigkeit, die eigene Reputation zu schützen; Umgang mit den Daten, die durch mehrere digitale Werkzeuge, Umgebungen und Dienste erzeugt werden.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	die Umwelt vor den Folgen digitaler Technologien schützen	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Bewusstsein für die Umweltauswirkungen digitaler Technologien und deren Nutzung.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-	protect health and well-being while using digital technologies	Gesundheit und Wohlbefinden während der Verwendung digitaler Technologien schützen und bewahren	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible	Be able to avoid health-risks and threats to physical and psychological well-being while using digital	Vermeiden von Gesundheitsrisiken und Gefahren für das körperliche und seelische Wohlbefinden während der Verwendung

	0214998b58fb			dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for social well-being and social inclusion.	digitaler Technologien. Fähigkeit, sich selbst und andere vor möglichen Gefahren in einem digitalen Umfeld zu schützen (z. B. Cyber-Mobbing). Kenntnis digitaler Technologien zur Förderung des sozialen Wohlbefindens und der sozialen Eingliederung.
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT IKT-Geräte schützen	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Schutz von IKT-Geräten und digitalen Inhalten sowie Kenntnis der Risiken und Bedrohungen in einem digitalen Umfeld. Kenntnis der Schutz- und Sicherheitsmaßnahmen und gebührende Beachtung der Zuverlässigkeit und der Privatsphäre. Einsatz von Instrumenten und Methoden zur Maximierung der Sicherheit von IKT-Geräten und -Informationen durch Zugangskontrollen, z. B. durch Passwörter, digitale Signaturen, Biometrie oder durch Schutzvorkehrungen wie Firewall-, Antivirus- und Spamfiltersysteme.
Browsing, searching and filtering data,	http://data.europa.eu/esco/skill/e439742d-558d-	browse, search and filter data,	Daten, Informationen und digitale Inhalte durchsehen, recherchieren und filtern	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between	Articulate information needs, search for data, information and content in digital environments,	Formulieren des Informationsbedarfs; Recherche von Daten, Informationen und Inhalten in

information and digital content	4f52-885e-afdc740b48cf	information and digital content		them. To create and update personal search strategies.	access them and navigate between them. Create and update personal search strategies.	einem digitalen Umfeld, Aufrufen der Daten und Navigieren zwischen den Daten. Entwerfen und Aktualisieren persönlicher Suchstrategien.
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3.10. Greek

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	επίλυση τεχνικών προβλημάτων	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Εντοπισμός τεχνικών προβλημάτων κατά το χειρισμό συσκευών και τη χρήση ψηφιακών περιβαλλόντων και επίλυση αυτών (από την αντιμετώπιση σφαλμάτων έως την επίλυση πιο σύνθετων προβλημάτων).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	συμμετοχή στα κοινά μέσω ψηφιακών τεχνολογιών	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Συμμετοχή στην κοινωνία με χρήση δημόσιων και ιδιωτικών ψηφιακών υπηρεσιών. Αναζήτηση ευκαιριών για αυτοενδυνάμωση και συμμετοχή των πολιτών μέσω κατάλληλων ψηφιακών τεχνολογιών.

Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	δημιουργική χρήση ψηφιακών τεχνολογιών	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Χρήση ψηφιακών εργαλείων και τεχνολογιών για τη δημιουργία γνώσης και την ανάπτυξη καινοτόμων διαδικασιών και προϊόντων. Συμμετοχή ατομικά και συλλογικά σε γνωστική διεργασία για την κατανόηση και την επίλυση εννοιολογικών προβλημάτων και προβληματικών καταστάσεων σε ψηφιακά περιβάλλοντα.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	αξιολόγηση δεδομένων, πληροφοριών και ψηφιακού περιεχομένου	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Ανάλυση, σύγκριση και κριτική αξιολόγηση της πιστότητας και της αξιοπιστίας των πηγών δεδομένων, των πληροφοριών και του ψηφιακού περιεχομένου. Ανάλυση, ερμηνεία και κριτική αξιολόγηση των δεδομένων, των πληροφοριών και του ψηφιακού περιεχομένου.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	προγραμματισμός ηλεκτρονικών υπολογιστών	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional	Οι τεχνικές και οι αρχές ανάπτυξης λογισμικού, όπως είναι η ανάλυση, οι αλγόριθμοι, η συγγραφή κώδικα, οι δοκιμές και η κατάρτιση μοντέλων προγραμματισμού (π.χ. προγραμματισμός προσανατολισμένος στο αντικείμενο, λειτουργικός

					programming) and of programming languages.	προγραμματισμός) και γλωσσών προγραμματισμού.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	εντοπισμός ελλείψεων όσον αφορά την ψηφιακή ικανότητα	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development and to keep up-to-date with the digital evolution.	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek opportunities for self-development and keep up-to-date with the digital evolution.	Κατανόηση των σημείων που χρήζουν βελτίωσης ή επικαιροποίησης σε ό,τι αφορά τις ψηφιακές ικανότητες ενός ατόμου. Ικανότητα παροχής υποστήριξης σε τρίτους για την ανάπτυξη των ψηφιακών τους ικανοτήτων Αναζήτηση ευκαιριών για προσωπική εξέλιξη και συνεχής ενημέρωση σχετικά με τις ψηφιακές εξελίξεις.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	συνεργασία μέσω ψηφιακών τεχνολογιών	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Χρήση ψηφιακών εργαλείων και τεχνολογιών για συνεργατικές διαδικασίες και για συγκατασκευή και συνδημιουργία πόρων και γνώσεων.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	προστασία των δεδομένων προσωπικού χαρακτήρα και της ιδιωτικής ζωής	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital	Προστασία των δεδομένων προσωπικού χαρακτήρα και της ιδιωτικής ζωής σε ψηφιακά περιβάλλοντα. Κατανόηση του τρόπου χρήσης και κοινοποίησης προσωπικών πληροφοριών, έχοντας τη δυνατότητα να προστατευτεί και να προστατεύσει τους άλλους από ζημιές. Κατανόηση ότι οι ψηφιακές

					services use a “Privacy policy” to inform how personal data is used.	υπηρεσίες χρησιμοποιούν μια «πολιτική προστασίας προσωπικών δεδομένων» προκειμένου να ενημερώσουν σχετικά με τον τρόπο χρήσης των προσωπικών δεδομένων.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	κοινοποίηση δεδομένων μέσω ψηφιακών τεχνολογιών	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know about referencing and attribution practices.	Κοινοποίηση δεδομένων, πληροφοριών και ψηφιακού περιεχομένου σε τρίτους μέσω κατάλληλων ψηφιακών τεχνολογιών. Συμπεριφορά ενδιάμεσου φορέα, γνώση των πρακτικών αναφοράς πηγών και κατόχων πνευματικών δικαιωμάτων.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	προσδιορισμός αναγκών και τεχνολογικών τρόπων αντιμετώπισης	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Αξιολόγηση των αναγκών και προσδιορισμός, αξιολόγηση, επιλογή και χρήση ψηφιακών εργαλείων και πιθανών τεχνολογικών τρόπων αντιμετώπισης για την επίλυσή τους. Προσαρμογή και εξατομίκευση του ψηφιακού περιβάλλοντος σύμφωνα με τις ατομικές ανάγκες (π.χ. προσβασιμότητα).
Managing data, information	http://data.europa.eu/esco/skill/4d97	manage data, information and digital content	διαχείριση δεδομένων, πληροφοριών και ψηφιακού περιεχομένου	To organise, store and retrieve data, information and content in digital environments. To organise and	Organise, store and retrieve data, information and content	Οργάνωση, αποθήκευση και ανάκτηση δεδομένων, πληροφοριών και

and digital content	e3c3-f335-47cc-a4ee-0d779fd42222			process them in a structured environment.	in digital environments. Organise and process them in a structured environment.	περιεχομένου σε ψηφιακά περιβάλλοντα. Οργάνωση και επεξεργασία τους σε ένα δομημένο περιβάλλον.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	προσαρμογή και ενσωμάτωση ψηφιακού περιεχομένου	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Τροποποίηση, βελτιστοποίηση, βελτίωση και ενσωμάτωση πληροφοριών και περιεχομένου σε ένα υφιστάμενο σώμα γνώσεων για τη δημιουργία νέου, πρωτότυπου και συναφούς περιεχομένου και γνώσεων.
Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	ανάπτυξη ψηφιακού περιεχομένου	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Δημιουργία και επεξεργασία ψηφιακού περιεχομένου σε διάφορους μορφοτύπους, έκφραση μέσω ψηφιακών μέσων.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	χρήση κανόνων του κώδικα δεοντολογικής συμπεριφοράς στο διαδίκτυο	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Εφαρμογή προτύπων συμπεριφοράς και τεχνογνωσίας, με τη χρήση ψηφιακών τεχνολογιών και την αλληλεπίδραση στα ψηφιακά περιβάλλοντα. Προσαρμογή των στρατηγικών επικοινωνίας στο συγκεκριμένο κοινό και επίγνωση της πολιτισμικής πολυμορφίας και της πολυμορφίας των γενεών στο ψηφιακό περιβάλλον.

Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	επικοινωνία μέσω ψηφιακών τεχνολογιών	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Αλληλεπίδραση μέσω διαφόρων ψηφιακών τεχνολογιών και κατανόηση των κατάλληλων μέσων ψηφιακής επικοινωνίας σε ένα δεδομένο πλαίσιο.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-f425c6ffdc82	copyright and licenses related to digital content	πνευματική ιδιοκτησία και άδειες ψηφιακού περιεχομένου	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Κατανόηση του τρόπου με τον οποίο τα δικαιώματα πνευματικής ιδιοκτησίας και οι άδειες ισχύουν για δεδομένα, πληροφορίες και ψηφιακό περιεχόμενο.
Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	διαχείριση ψηφιακής ταυτότητας	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Δημιουργία και διαχείριση μίας ή πολλαπλών ψηφιακών ταυτοτήτων, ικανότητα προστασίας της προσωπικής φήμης, χειρισμός των δεδομένων που παράγονται μέσω διαφόρων ψηφιακών εργαλείων, περιβαλλόντων και υπηρεσιών.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	προστασία του περιβάλλοντος από τον αντίκτυπο των ψηφιακών τεχνολογιών	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Επίγνωση των περιβαλλοντικών επιπτώσεων των ψηφιακών τεχνολογιών και της χρήσης τους.

Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	προστασία της υγείας και της ευεξίας κατά την εργασία με ψηφιακές τεχνολογίες	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for social well-being and social inclusion.	Ικανότητα αποφυγής των κινδύνων για την υγεία και των απειλών κατά της σωματικής και ψυχολογικής ευεξίας κατά τη χρήση ψηφιακών τεχνολογιών. Ικανότητα προστασίας του εαυτού σας και των άλλων από πιθανούς κινδύνους στο ψηφιακό περιβάλλον (π.χ. διαδικτυακό εκφοβισμό). Κατοχή γνώσεων σχετικά με τις ψηφιακές τεχνολογίες για την κοινωνική ευημερία και την κοινωνική ένταξη.
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices ICT	προστασία συσκευών ΤΠΕ	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Προστασία συσκευών και ψηφιακού περιεχομένου, καθώς και κατανόηση των κινδύνων και των απειλών στα ψηφιακά περιβάλλοντα. Γνώση των μέτρων ασφαλείας και προστασίας και να λήψη δεόντως υπόψη της αξιοπιστίας και της ιδιωτικότητας. Χρήση εργαλείων και μεθόδων που μεγιστοποιούν την ασφάλεια των συσκευών ΤΠΕ και των πληροφοριών με έλεγχο της πρόσβασης, όπως συνθηματικών, ψηφιακών υπογραφών, βιομετρίας και προστασίας συστημάτων όπως τείχος προστασίας (firewall), αντιαίτια και φίλτρα

						ανεπιθύμητων μηνυμάτων (spam).
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/es-co/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content	διερεύνηση, αναζήτηση και φιλτράρισμα δεδομένων, πληροφοριών και ψηφιακού περιεχομένου	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Διατύπωση των αναγκών πληροφόρησης, αναζήτηση δεδομένων, πληροφοριών και περιεχομένου σε ψηφιακά περιβάλλοντα, πρόσβαση σε αυτά και πλοήγηση μεταξύ τους. Δημιουργία και επικαιροποίηση προσωπικών στρατηγικών αναζήτησης.

3.11. Hungarian

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	technikai problémákat old meg	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Eszközök működtetése és digitális környezetek használata során felmerülő műszaki problémák azonosítása és elhárítása (a hibaelhárítástól kezdve a bonyolultabb problémák megoldásáig).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	a digitális technológiák révén aktív polgári szerepet vállal	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Társadalmi részvétel az állami és privát digitális szolgáltatások használata révén. Megfelelő digitális technológiák segítségével lehetőségek keresése az önrendelkezésen és részvételen alapuló polgárság megteremtésére.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	kreatívan alkalmazza a digitális technológiákat	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Tudás létrehozás, valamint folyamatok és termékek innovációja céljából digitális eszközök és technológiák használata. A digitális környezetben felmerülő fogalmi problémák és problémás helyzetek megértése és megoldása

					problems and problem situations in digital environments.	érdekében egyéni és kollektív részvétel a kognitív feldolgozásban.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	adatok, információkat és digitális tartalmakat értékel	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Elemzés, összehasonlítás és kritikai értékelés adatok, információk és digitális tartalmak forrásainak hitelességéről és megbízhatóságáról. Az adatok, információk és digitális tartalom elemzése, értelmezése és kritikai értékelése.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	számítógépes programozás	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	A szoftverfejlesztés technikái és alapelvei, úgymint elemzés, algoritmusok, kódolás, tesztelés és a programozási paradigmák (például objektumorientált programozás, funkcionális programozás) és programozási nyelvek összeállítása.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	azonosítja a digitális készségek terén jelentkező hiányosságokat	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Saját digitális kompetencia fejlesztése vagy frissítése szükségességének feltérképezése. Képesség mások támogatására a digitális kompetenciafejlesztésben. Az önfejlesztés lehetőségeinek

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	felkutatása és lépéstartás a digitális evolúcióval.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	digitális technológiák használatával együttműködésben vesz részt	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Digitális eszközöket és technológiákat használ együttműködési folyamatokhoz, valamint az erőforrások és az ismeretek társépítéséhez és közös létrehozásához.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	biztosítja a személyes adatok és a magánélet védelmét	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Biztosítja a személyes adatok és a magánélet védelmét a digitális környezetben. Megismeri, hogy hogyan használható és osztható meg a személyesen azonosítható információ, miközben megvédi magát és másokat a károkkal szemben. Tisztában van vele, hogy a digitális szolgáltatások „adatvédelmi politikát” alkalmaznak a személyes adatok felhasználásának módjáról való tájékoztatás céljából.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-	share through digital technologies	digitális technológiák használatával információkat és digitális tartalmakat oszt meg	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	A megfelelő digitális technológiák használatával adatokat, információkat és digitális tartalmakat oszt meg másokkal. Közvetítőként jár

	2dca53290ff4				about referencing and attribution practices.	el, ismeri a hivatkozási és hozzárendelési gyakorlatokat.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	azonosítja az igényeket és a rájuk adandó technológiai válaszokat	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Felméri a szükségleteket, és azonosítja, kiértékeli, kiválasztja és felhasználja a digitális eszközöket és a lehetséges technológiai válaszokat ezek megoldására. Beállítja és testreszabja a digitális környezeteket a személyes igényekhez (pl. akadálymentesség).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	adatokat, információkat és digitális tartalmakat kezel	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Az adatokat, információkat és tartalmakat digitális környezetekben rendezi, tárolja és visszakeresi. Szervezi és feldolgozza azokat strukturált környezetben.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	digitális tartalmakat integrál és dolgoz fel	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Az információkat és tartalmakat módosítja, finomítja, javítja és integrálja egy meglévő tudáskészletbe új, eredeti és releváns tartalom és tudás létrehozása érdekében.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	digitális tartalmakat fejleszt	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	A digitális tartalmat különféle formátumokban hozza létre és szerkeszti, digitális eszközökkel fejezi ki magát.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	alkalmazza az internetes kommunikáció illemszabályait	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Magatartási normák és know-how alkalmazása a digitális technológiák használata és a digitális környezetben való interakció során. A kommunikációs stratégiáknak a meghatározott közönséghez való igazítása, valamint a kulturális és generációs sokszínűség tudatosítása a digitális környezetben.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	digitális technológiák használatával kommunikál	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Különböző digitális technológiák használatával kommunikál, és ismeri az adott környezethez megfelelő digitális kommunikációs eszközöket.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	a digitális tartalmakhoz kapcsolódó szerzői jogok és engedélyek	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	A szerzői jogok és engedélyek adatokra, az információkra és a digitális tartalomra való alkalmazásának ismerete.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	digitális személyazonosságot kezel	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Egy vagy több digitális személyazonosságot hoz létre és kezel ezeket, képes megvédeni a jó hírnevét, kezelni tudja azokat az adatokat, amelyeket a digitális eszközök, környezetek és szolgáltatások révén állít elő.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	Óvja a környezetet a digitális technológiák hatásaitól.	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Tisztában van a digitális technológiák és használatuk környezeti hatásaival.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	a digitális technológiák használata során gondoskodik a fizikai és lelki egészség és jóllét védelméről	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Képes arra, hogy a digitális technológiák használata során elkerülje az egészséget érintő kockázatokat, valamint a fizikai és pszichológiai jólétet fenyegető veszélyeket. Képes arra, hogy megvédje magát és másokat a digitális környezetben lehetséges veszélyektől (pl. internetes zaklatás). Felismeri a digitális technológiákat a társadalmi jólét és a társadalmi befogadás érdekében.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	gondoskodik az IKT-eszközök védelméről	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Gondoskodik az eszközök és a digitális tartalmak védelméről, valamint tudomással bír a digitális környezetben rejlő kockázatokról és veszélyekről. Ismeri a védelmi és biztonsági intézkedéseket, és kellően szem előtt tartja a megbízhatóságot és a magánélet védelmét. Olyan eszközöket és módszereket használ, amelyek a hozzáférés szabályozásával – például jelszavak, digitális aláírások, biostatisztika – és a rendszerek védelmével – például tűzfal, vírusirtó programok, spamszűrők – maximalizálják az IKT-eszközök és az információk biztonságát.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		adatokat, információkat és digitális tartalmakat böngész, keres és szűr	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Megfogalmazza az információigényeket, adatokat, információkat és tartalmakat keres a digitális környezetekben, hozzáfér azokhoz, és navigál közöttük. Személyes keresési stratégiákat hoz létre és frissít.

3.12. Icelandic

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	leysir tæknileg vandamál	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Greinir tæknileg vandamál við starfrækslu tækja og notkun stafræns umhverfis og leysir þau (frá því að bilanagreina til þess að leysa flóknari vandamál).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	skuldbindur þegnskapar stafræna tækni gegnum	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Tekur þátt í samfélaginu með því að nota stafræna þjónustu hins opinbera og einkaaðila. Leitar tækifæra til sjálfeflingar og þátttöku í þegnskap, með viðeigandi stafrænni tækni.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	notar stafræna tækni á hugvitsamlegan hátt	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Notar stafræna verkfæri og tækni til að búa til þekkingu og frumkvöðlavinnu á sviði afurða og aðferða. Ræðst á einstaklingsgrundvelli og sameiginlega í vitsmunalega vinnslu til að skilja og leysa úr vandamálum á skilningsstigi

					problems and problem situations in digital environments.	og vandamálaaðstæður í stafrænu umhverfi.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	metur gögn, upplýsingar og stafrænt inntak	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Greinir, ber saman og metur á gagnrýnninn hátt trúverðugleika og áreiðanleika gagna, upplýsinga og stafræns efnis. Greinir, túlkar og gagnrýnir mat á gögnunum, upplýsingunum og stafrænu efni.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	tölvuforritun	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Aðferðir og meginreglur við þróun hugbúnaðar, s.s. greiningar, reiknirit, kóðun, prófun og samantekt á fyrirmyndardæmum forritunar (t.d. hlutbundin forritun, fallaforritun) og forritunarmála.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	ber kennsl á stafræn hæfnisbil	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Skilur hvar bæta þarf eða uppfæra eigin stafræna hæfni. Getur stutt aðra með þróun sinnar stafrænu færni. Leitar möguleika á sjálfsþróun og heldur við þekkingu á stafrænni þróun.

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	er í samstarfi gegnum stafræna tækni	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Notar stafræn tæki og tækni við samvinnuferla og til sambyggingar og samvinnu auðlinda og þekkingar.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	verndar persónugögn og friðhelgi	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a “Privacy policy” to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a “Privacy policy” to inform how personal data is used.	Verndar persónugögn og friðhelgi í stafrænu umhverfi. Skilur hvernig á að nota og deila persónugreinanlegum upplýsingum en geta verndað sjálfan sig og aðra gegn tjóni. Skilur að stafræn þjónusta notar „persónuverndarstefnu“ til að upplýsa hvernig persónuupplýsingar eru notaðar.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	deilir gegnum stafræna tækni	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Deilir gögnum, upplýsingum og stafrænu efni með öðrum með viðeigandi stafrænni tækni. Starfar sem milliliður, veit um þær aðferðir er varða tilvitnun og eignun.

					about referencing and attribution practices.	
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	þer kennsl á þörfum og tæknilegri svörun	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Metur þarfir og greinir, metur, velur og notar stafræn tæki og möguleg tæknileg viðbrögð við þeim til að leysa þau. Aðlagar og sníður stafrænt umhverfi að persónulegum þörfum (t.d. aðgengi).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	skipuleggur gögn, upplýsingar og stafrænt inntak	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Skipuleggja, geyma og sækja gögn, upplýsingar og innihald í stafrænu umhverfi. Skipuleggja og vinna þau í skipulögðu umhverfi.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	sambættir og endurmótar stafrænt inntak	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Breyta, skerpa og sambætta upplýsingar og efni í fyrirliggjandi þekkingu til að skapa ný, frumleg og viðeigandi efni og þekkingu.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	þróar stafrænt inntak	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Búa til og breyta stafrænu efni á mismunandi sniðum, tjáðu sig með stafrænum hætti.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	fylgir netsiðareglum	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Notaðu hegðunarreglur og þekkingu þegar notuð er stafræn tækni og samskipti í stafrænu umhverfi. Aðlagja samskiptaáætlanir að sérstökum markhópi og vera meðvitaður um fjölbreytni menningar og kynslóða í stafrænu umhverfi.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	hefur gagnkvæm samskipti gegnum stafræna tækni	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Hefur samskipti með margs konar stafrænni tækni og skilur viðeigandi stafræna samskiptatækni fyrir tiltekið samhengi.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	höfundaréttur og leyfi í tengslum við stafrænt inntak	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Sem skilja hvernig höfundarréttur og leyfi eiga við um gögn, upplýsingar og stafrænt efni.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	sér um stafrænt auðkenni	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Búa til og stjórna einu eða fleiri stafrænum auðkennum, að vera fær um að vernda eigin orðspor, fjalla um gögnin sem maður framleiðir með notkun stafrænna verkfæra, umhverfis og þjónustu.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	verndar umhverfið fyrir áhrifum stafrænnar tækni	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Er meðvitaður um umhverfisáhrif stafrænnar tækni og notkun þeirra.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	verndar heilsu og vellíðan við notkun á stafrænni tækni	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Getur forðast heilsufarsáhættu og ógnanir við líkamlega og sálræna líðan meðan stafræn tækni er notuð. Getur varið sjálfan sig og aðra fyrir hugsanlegum hættum í stafrænu umhverfi (t.d. einelti á netinu). Er meðvitaður um stafræna tækni til félagslegrar vellíðunar og félagslegrar aðlögunar.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	ver UST-tæki	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Verndar tæki og stafrænt efni og skilur áhættu og ógnir í stafrænu umhverfi. Veit af öryggis- og öryggisráðstöfunum með viðeigandi tilliti til áreiðanleika og friðhelgi einkalífs. Nýtir sér verkfæri og aðferðir sem hámarka öryggi upplýsingatæknibúnaðar og upplýsinga með því að stjórna aðgangi, svo sem lykilorðum, stafrænum undirskriftum, tölfraði og verndun kerfa svo sem gegnum eldvegg, vírusvarnarefni, ruslpóstsíum.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		fer um netið, leitar og síar gögn, upplýsingar og stafrænt inntak	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Útskýrir upplýsingabörf, leitar að gögnum, upplýsingum og efni í stafrænu umhverfi, nálgast þau og flakkar á milli. Býr til og uppfærir persónulegar leitaraðferðir.

3.13. Irish

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	fadhbanna teicniúla a réiteach	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Fadhbanna teicniúla a shainiú i gcás feistí oibriúcháin a úsáid agus timpeallachtaí digiteacha a úsáid, agus iad a réiteach (ó fhabhtcheartú go dtí fadhbanna níos casta a réiteach).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	bheith gníomhach i gcáil saoránaigh trí mheán teicneolaíochtaí digiteacha	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Páirt a ghlacadh sa tsochaí trí sheirbhísí digiteacha poiblí agus príobháideacha a úsáid. Deiseanna le haghaidh féinchumhachtú agus saoránacht rannpháirtíochta a lorg trí theicneolaíochtaí digiteacha iomchuí.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	teicneolaíochtaí digiteacha a úsáid ar dhóigh chruthaitheach	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Uirlisí agus teicneolaíochtaí digiteacha a úsáid chun eolas a chruthú agus chun próisis agus táirgí a nuáil. Páirt a ghlacadh go leithleach agus i dteannta a chéile i bpróiseáil chognaíoch chun fadhbanna coincheapúla agus fadhbanna

					problems and problem situations in digital environments.	i dtimpeallachtaí digiteacha a thuiscint agus a réiteach.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	sonraí, faisnéis agus inneachar digiteach a mheas	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Inchreidteacht agus iontaofacht foinsí sonraí, ábhair faisnéise agus ábhair dhigitigh a anailísiú, a chur i gcomparáid agus meastóireacht chriticiúil a dhéanamh orthu. Na sonraí, an fhaisnéis agus an t-ábhar digiteach a anailísiú, a léirmhíniú agus meastóireacht chriticiúil a dhéanamh orthu.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	ríomhchlárú	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Teicnící agus prionsabail na forbartha bogearraí, amhail anailís, algartaim, códú, tástáil agus tiomsú a dhéanamh ar na paraidímí cláraithe (m.s. cláreagrú dírithe ar oibiacht, cláreagrú feidhmiúil) agus teangacha cláreagraithe.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	bearnaí maidir le hinniúlacht dhigiteach a aithint	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	An áit is gá d'inniúlacht dhigiteach féin a fheabhsú nó a nuashonrú a thuiscint. Bheith in ann tacú le daoine eile lena bhforbairt inniúlachta digití. Deiseanna féinfhorbartha a lorg agus

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	fanacht chun cothrom le dáta leis an éabhlóid dhigiteach.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	comhoibriú trí mheán teicneolaíochtaí digiteacha	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Uirlisí agus teicneolaíochtaí digiteacha a úsáid le haghaidh próiseas comhoibríoch agus le haghaidh comhthógáil agus comhchruthú d'acmhainní agus d'eolas.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	sonraí pearsanta agus príobháideacht a chosaint	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a “Privacy policy” to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a “Privacy policy” to inform how personal data is used.	Sonraí pearsanta agus príobháideacht i dtimpeallachtaí digiteacha a chosaint. Tuiscint a fháil ar an gcaoi le faisnéis inaitheanta a úsáid agus faisnéis phearsanta a roinnt agus a bheith in ann daoine eile a chosaint ar dhamáistí. A thuiscint go n-úsáideann seirbhísí digiteacha “Polasaí príobháideach” chun eolas a chur ar fáil maidir leis an gcaoi a n-úsáidtear sonraí pearsanta.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-	share through digital technologies	sonraí, faisnéis agus inneachar digiteach a roinnt trí mheán teicneolaíochtaí digiteacha	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Sonraí, faisnéis agus ábhar digiteach a chomhroinnt le daoine eile trí theicneolaíochtaí digiteacha iomchuí. Gníomhú mar idirghabhálaí, agus a bheith ar

	2dca53290ff4				about referencing and attribution practices.	an eolas faoi chleachtais a bhaineann le cleachtais tagairtí agus aitreabúideachta.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	riachtanais agus freagairtí teicneolaíochta a aithint	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Riachtanais a mheasúnú agus uirlisí digiteacha agus freagairtí teicneolaíochta féideartha a shainaithint, a roghnú agus a úsáid. Timpeallachtaí digiteacha a oiriúnú agus a chur in oiriúint do riachtanais phearsanta (e.g. inrochtaineacht).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	sonraí, faisnéis agus inneachar digiteach a bhainistiú	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Sonraí, faisnéis agus inneachar a eagrú, a stóráil agus a aisghabháil i dtimpeallachtaí digiteacha. Iad a eagrú agus a phróiseáil i dtimpeallacht struchtúrtha.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	inneachar digiteach a chomhtháthú agus a athmhionsaothrú	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and	An fhaisnéis agus an t-inneachar atá ann cheana a mhodhnú, a bheachtú, a fheabhsú agus a chomhtháthú isteach i gcorpas eolais atá ann cheana chun inneachar agus eolas, de chineál nua,

					relevant content and knowledge.	bunaidh agus ábhartha a chruthú.
Developing digital content	http://data.europa.eu/es-co/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	inneachar digiteach a fhorbairt	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Inneachar digiteach i bhformáidí éagsúla a chruthú sgd a chur in eagar, léiriú a dhéanamh trí mheán dhigiteacha.
Netiquette	http://data.europa.eu/es-co/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	cloí le dea-bhéasaíocht Idirlín	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Gnásanna iompraíochta agus fios gnó a chur i bhfeidhm agus teicneolaíochtaí digiteacha agus idirghníomhú i dtimpeallachtaí digiteacha á n-úsáid. Straitéisí cumarsáide a oiriúnú don lucht féachana ar leith agus a bheith ar an eolas faoi éagsúlacht chultúrtha agus ghlúnta i dtimpeallachtaí digiteacha.
Interacting through digital technologies	http://data.europa.eu/es-co/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	idirghníomhú trí mheán teicneolaíochtaí digiteacha	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Idirghníomhú trí mheán teicneolaíochtaí digiteacha éagsúla agus cumarsáid dhigiteach chuí a thuiscint i gcás ar leith.
Copyright and licences	http://data.europa.eu/es-co/skill/a91732ce-988e-	copyright and licenses related to digital content	cóipcheart agus ceadúnais a bhaineann le hinneachar digiteach	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data,	A thuiscint conas a bhaineann cóipcheart agus ceadúnais le sonraí, faisnéis agus ábhar digiteach a chur i bhfeidhm.

	4105-9570-f425c6ffdc82				information and digital content.	
Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	céannacht dhigiteach a bhainistiú	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Céannacht dhigiteach amháin nó níos mó a chruthú agus a bhainistiú, a bheith in ann do chlú féin a chosaint, déileáil leis na sonraí a tháirgeann tú féin trí úsáid a bhaint as roinnt uirlisí agus seirbhísí digiteacha.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	an comhshaol a chosaint ar dhrochthionchar na teicneolaíochtaí digiteacha	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Bheith feasach ar an tionchar atá ag teicneolaíochtaí digiteacha agus a n-úsáid ar an gcomhshaol.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	sláinte agus folláine a chosaint le linn teicneolaíochtaí digiteacha a úsáid	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	A bheith in ann rioscaí sláinte ar fholláine fhisiciúil agus shíceolaíoch a sheachaint le linn teicneolaíochtaí digiteacha a úsáid. A bheith in ann tú féin agus daoine eile a chosaint ar bhaol a d'fhéadfadh a bheith i dtimpeallachtaí digiteacha (e.g. an chibearbhulaíocht). A bheith ar an eolas maidir le teicneolaíochtaí digiteacha ar

					social well-being and social inclusion.	mhaithe le folláine shóisialta agus ionchuimsiú sóisialta.	
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	gléasanna TFC a chosaint	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Feistí agus ábhar digiteach a chosaint, agus tuiscint a fháil ar rioscaí agus bagairtí i dtimpeallachtaí digiteacha. Bheith ar an eolas faoi bhearta sábháilteachta agus slándála agus aird chuí á tabhairt ar iontaofacht agus príobháideacht. Úsáid a bhaint as uirlisí agus modhanna lena ndéantar an tslándáil a bhaineann le gléasanna agus le faisnéis a scaipeadh trí rochtain a rialú, ar nós pasfhocail, sínithe digiteacha, trí bhíthin scagairí turscair, agus chun córais a chosaint amhail balla, frithvíreas, scagairí turscair.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		sonraí, faisnéis agus inneachar digiteach a bhrabhsáil, a chuardach agus a scagadh	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Riachtanais faisnéise, cuardach ar shonraí, faisnéis agus inneachar i dtimpeallachtaí digiteacha, rochtain orthu agus loingseoireacht eatarthu. Straitéisí cuardaigh pearsanta a chruthú agus a nuashonrú.

3.14. Italian

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	risolvere i problemi tecnici	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Individuare i problemi tecnici quando si utilizzano dispositivi e ambienti digitali e risolverli (dall'individuazione dei problemi alla soluzione di problemi più complessi).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	partecipare alle attività civiche mediante le tecnologie digitali	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Utilizzare strumenti e tecnologie digitali per creare conoscenze e innovare processi e prodotti. Impegnarsi individualmente e collettivamente nell'elaborazione cognitiva per comprendere e risolvere i problemi concettuali e le situazioni problematiche negli ambienti digitali.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	usare le tecnologie digitali in modo creativo	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive	Analizzare, confrontare e valutare criticamente la credibilità e l'affidabilità delle fonti di dati, informazioni e contenuti digitali. Analizzare, interpretare e valutare

				problem situations in digital environments.	processing to understand and resolve conceptual problems and problem situations in digital environments.	criticamente dati, informazioni e contenuti digitali.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	valutare dati, informazioni e contenuti digitali	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Le tecniche e i principi dello sviluppo di software, quali analisi, algoritmi, codifica, collaudo e compilazione di paradigmi di programmazione (ad esempio programmazione orientata all'oggetto, programmazione funzionale) e dei linguaggi di programmazione.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	programmazione informatica	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Individuare gli ambiti nei quali è necessario migliorare o aggiornare le proprie competenze digitali. Essere in grado di sostenere lo sviluppo delle competenze digitali di altre persone. Cercare opportunità per lo sviluppo personale e mantenersi al passo con l'evoluzione digitale.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-	identify digital competence gaps	identificare le lacune nelle competenze digitali	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their	Utilizzare strumenti e tecnologie digitali per i processi collaborativi e per la co-costruzione e la co-

	cf24d3a236e7			opportunities for self-development and to keep up-to-date with the digital evolution.	digital competence development. Seek opportunities for self-development and keep up-to-date with the digital evolution.	creazione di risorse e conoscenze.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	collaborare mediante le tecnologie digitali	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Proteggere i dati personali e la privacy negli ambienti digitali. Capire come utilizzare e condividere informazioni personali identificabili, essendo in grado nel contempo di proteggere se stessi e gli altri dai danni. Capire che i servizi digitali utilizzano una "politica in materia di privacy" per informare sulle modalità di utilizzo dei dati personali.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	tutelare i dati personali e la privacy	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Condividere con gli altri, attraverso adeguate tecnologie digitali, i dati, le informazioni e i contenuti digitali. Agire da intermediario, conoscere le prassi di riferimento e di assegnazione.

Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	condividere mediante le tecnologie digitali	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know about referencing and attribution practices.	Valutare le esigenze e individuare, valutare, selezionare e utilizzare strumenti digitali e possibili risposte tecnologiche per risolverle. Adattare e personalizzare gli ambienti digitali alle esigenze personali (ad esempio l'accessibilità).
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	identificare le esigenze e le risposte tecnologiche	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Organizzare, archiviare e recuperare dati, informazioni e contenuti in ambienti digitali. Organizzarli ed elaborarli in un ambiente strutturato.
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	gestire dati, informazioni e contenuti digitali	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Modificare, perfezionare, migliorare e integrare le informazioni e i contenuti in un corpus di conoscenze esistente per creare contenuti e conoscenze nuovi, originali e pertinenti.

Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrare e rielaborare i contenuti digitali	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Creare e modificare contenuti digitali in diversi formati, esprimersi con mezzi digitali.
Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	sviluppare contenuti digitali	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Applicare le norme comportamentali e il know-how utilizzando le tecnologie digitali e interagendo in contesti digitali. Adattare le strategie di comunicazione al pubblico specifico ed essere a conoscenza della diversità culturale e generazionale in ambienti digitali.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	utilizzare le convenzioni di netiquette	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Interagire attraverso una serie di tecnologie digitali e comprendere adeguati mezzi di comunicazione digitale per un determinato contesto.

Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	interagire mediante le tecnologie digitali	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Sapere come il diritto d'autore e le licenze si applicano ai dati, alle informazioni e ai contenuti digitali.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-f425c6ffdc82	copyright and licenses related to digital content	autore e le licenze relativi a contenuti digitali	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Creare e gestire una o più identità digitali, essere in grado di tutelare la propria reputazione, trattare i dati generati da diversi strumenti, ambienti e servizi digitali.
Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	identità digitale	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Essere consapevoli dell'impatto ambientale delle tecnologie digitali e del loro uso.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	impatto delle tecnologie digitali	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Essere in grado di evitare rischi per la salute e minacce al benessere fisico e psicologico durante l'utilizzo di tecnologie digitali. Essere in grado di proteggere se stessi e altre persone dai possibili pericoli in ambienti digitali (ad esempio cyber bullismo).

						Conoscere le tecnologie digitali per il benessere sociale e l'inclusione sociale.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	uso di tecnologie digitali	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for social well-being and social inclusion.	Proteggere i dispositivi e i contenuti digitali e comprendere i rischi e le minacce negli ambienti digitali. Conoscere le misure di sicurezza e di protezione e tenere debitamente conto dell'affidabilità e della privacy. Utilizzare strumenti e metodi che massimizzino la sicurezza dei dispositivi e delle informazioni TIC mediante il controllo dell'accesso, quali password, firme digitali, biometria e sistemi di protezione quali firewall, antivirus, filtri anti-spam.
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices ICT	proteggere i dispositivi ICT	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access,	Articolare le esigenze in materia di informazione, cercare dati, informazioni e contenuti in ambienti digitali, accedervi e navigare tra di loro. Creare e aggiornare strategie di ricerca personale.

					such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content	consultare, cercare e filtrare dati, informazioni e contenuti digitali	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Partecipare alla società mediante l'uso di servizi digitali pubblici e privati. Cercare opportunità di autoresponsabilizzazione e di cittadinanza partecipativa mediante adeguate tecnologie digitali.

3.15. Latvian

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	risināt tehniskās problēmas	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Apzināt tehniskas problēmas saistībā ar ierīču darbību un digitālās vides izmantošanu un tās atrisināt (no problēmu novēršanas līdz sarežģītāku problēmu atrisināšanai).

Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	iesaistīties sabiedriskajā dzīvē ar digitālo tehnoloģiju palīdzību	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Piedalīties sabiedriskajā dzīvē, izmantojot publiskus un privātus digitālos pakalpojumus. Izmantojot atbilstošas digitālās tehnoloģijas, meklēt pašrealizācijas iespējas un pilsoniskās līdzdalības iespējas.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	radoši izmantot digitālās tehnoloģijas	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Izmantot digitālos rīkus un tehnoloģijas, lai veidotu zināšanas un novatoriskus procesus un produktus. Individuāli un kolektīvi iesaistīties izziņas procesā, lai izprastu un risinātu konceptuālās problēmas un problēmsituācijas digitālajā vidē.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	novērtēt datus, informāciju un digitālo saturu	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analizēt, salīdzināt un kritiski izvērtēt datus, informācijas un digitālā satura avotu ticamību un uzticamību. Analizēt, interpretēt un kritiski izvērtēt datus, informāciju un digitālo saturu.

Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	datorprogrammēšana	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Programmatūras izstrādes paņēmieni un principi, piemēram, analīze, algoritmi, kodēšana, testēšana un programmēšanas paradigmu (piemēram, uz objektu orientētas programmēšanas, funkcionālās programmēšanas) un programmēšanas valodu kompilēšana.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	apzināt trūkstošās digitālās prasmes	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development and to keep up-to-date with the digital evolution.	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek opportunities for self-development and keep up-to-date with the digital evolution.	Saprast, kuros aspektos ir jāuzlabo vai jāatjaunina digitālās prasmes. Spēt sniegt atbalstu citiem, lai palīdzētu pilnveidot viņu digitālās prasmes. Meklēt iespējas pašattīstībai un sekot līdzi digitālajai attīstībai.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	sadarboties, izmantojot digitālās tehnoloģijas	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Izmantot digitālos rīkus un tehnoloģijas sadarbības procesiem, kā arī resursu un zināšanu paplašināšanai un līdzradīšanai.

Protecting personal data and privacy	http://data.europa.eu/es-co/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	aizsargāt personas datus un privātumu	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a “Privacy policy” to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a “Privacy policy” to inform how personal data is used.	Aizsargāt personas datus un privātumu digitālajā vidē. Izprast, kā izmantot un dalīties ar personu identificējošu informāciju, vienlaikus pasargājot sevi un citus no kaitējuma. Saprast, ka digitālie pakalpojumu sniedzēji izmanto “Privātuma politiku”, lai informētu par to, kā tiek izmantoti personas dati.
Sharing through digital technologies	http://data.europa.eu/es-co/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	kopīgot ar digitālo tehnoloģiju palīdzību	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know about referencing and attribution practices.	Kopīgot datus, informāciju un digitālo saturu ar citiem, izmantojot atbilstošas digitālās tehnoloģijas. Darboties kā starpniekam, pārzināt atsauču un piedēvējumu praksi.
Identifying needs and technological responses	http://data.europa.eu/es-co/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	apzināt vajadzības un tehnoloģiskos risinājumus	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Novērtēt vajadzības un identificēt, novērtēt, izvēlēties un izmantot digitālos rīkus un iespējamos tehnoloģiskos risinājumus, lai tās atrisinātu. Pielāgot un regulēt digitālo vidi personiskajām vajadzībām (piemēram, pieejamību).

				to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).		
Managing data, information and digital content	http://data.europa.eu/es-co/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	pārvaldīt datus, informāciju un digitālo saturu	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Sistematizēt, uzglabāt un izgūt datus, informāciju un saturu digitālajā vidē. Sistematizēt un apstrādāt tos strukturētā vidē.
Integrating and re-elaborating digital content	http://data.europa.eu/es-co/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrēt un pilnveidot digitālo saturu	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Pārveidot, precizēt, uzlabot un integrēt informāciju un saturu esošā zināšanu korpusā, lai radītu jaunu, oriģinālu un atbilstošu saturu un zināšanas.
Developing digital content	http://data.europa.eu/es-co/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	izstrādāt digitālo saturu	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Radīt un rediģēt digitālu saturu dažādos formātos. Izpausties, izmantojot digitālo tehnoloģiju iespējas.
Netiquette	http://data.europa.eu/es-co/skill/97c1895a-a890-47da-abfc-	use online conventions of netiquette	ievērot interneta saziņas etiķeti	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication	Sekot attiecīgam uzvedības normām un zinātībai, izmantojot digitālās tehnoloģijas un mijiedarbojoties digitālajā vidē. Pielāgot saziņas

	79dc272add2e			cultural and generational diversity in digital environments.	strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	stratēģijas konkrētai mērķauditorijai un apzināties kultūras un paaudžu daudzveidību digitālajā vidē.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	mijiedarboties, izmantojot digitālās tehnoloģijas	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Sazināties, izmantojot dažādas digitālās tehnoloģijas. Izprast konkrētajam kontekstam piemērotos digitālos saziņas līdzekļus.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-f425c6ffdc82	copyright and licenses related to digital content	ar digitālo saturu saistītās autortiesības un licences	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Izprot, kā autortiesības un licences attiecas uz datiem, informāciju un digitālo saturu.
Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	pārvaldīt digitālo identitāti	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Izveidot un pārvaldīt vienu vai vairākas digitālas identitātes. Spēt aizsargāt reputāciju, apstrādāt datus, kas tiek radīti, izmantojot digitālos rīkus, vides un pakalpojumus.

Protecting the environment	http://data.europa.eu/es-co/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	aizsargāt vidi no digitālo tehnoloģiju radītās ietekmes	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Apzināties digitālo tehnoloģiju un to izmantošanas ietekmi uz vidi.
Protecting health and well-being	http://data.europa.eu/es-co/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	rūpēties par veselību un labklājību digitālo tehnoloģiju izmantošanas laikā	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for social well-being and social inclusion.	Spēt izvairīties no veselības apdraudējumiem un draudiem fiziskajai un psiholoģiskajai labklājībai, vienlaikus izmantojot digitālās tehnoloģijas. Spēt aizsargāt sevi un citas personas no iespējamiem apdraudējumiem digitālajā vidē (piemēram, kibernetorizēšanas). Apzināt digitālās tehnoloģijas sociālās labklājības un sociālās integrācijas jomā.
Protecting devices	http://data.europa.eu/es-co/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices ICT	aizsargāt IKT ierīces	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT	Aizsargāt ierīces un digitālo saturu, izprast riskus un apdraudējumus digitālajā vidē. Pārzināt drošības un drošuma pasākumus un ņemt vērā uzticamību un privātumu. Izmantot rīkus un metodes, kas palielina IKT ierīču un informācijas drošību, kontrolējot piekļuvi, piemēram, paroles, digitālos parakstus, biometrijas datus

					devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	un tādas aizsardzības sistēmas kā ugunsūmūri, pretvīrusu programmas un surogātpasta filtri.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content	pārlūkot, meklēt un filtrēt datus, informāciju un digitālo saturu	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Formulēt nepieciešamo informāciju, meklēt datus, informāciju un saturu digitālajā vidē. Pieņļūt tai un darboties šajā vidē. Izveidot un atjaunināt individuālas meklēšanas stratēģijas.

3.16. Lithuanian

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	spręsti technines problemas	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Nustatyti technines problemas, susijusias su įrenginių valdymu ir skaitmenine aplinka, ir jas išspręsti (pradedant gedimų šalinimu ir baigiant sudėtingesnių problemų sprendimu).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	plėtoti pilietiškumą naudojantis skaitmeninėmis technologijomis	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Dalyvauti visuomenės gyvenime naudojant viešąsias ir privačiąsias skaitmenines paslaugas. Naudojantis tinkamomis skaitmeninėmis technologijomis, ieškoti galimybių naudotis savo teisėmis ir užtikrinti dalyvavimu grindžiamą pilietiškumą.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	kūrybiškai naudoti skaitmenines technologijas	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand	Naudoti skaitmenines priemones ir technologijas žinioms kurti ir procesų bei produktų inovacijoms diegti. Individualiai ir kolektyviai dalyvauti pažintiniame tyrime, kad būtų galima suprasti ir spręsti konceptualias problemas ir problemines

					and resolve conceptual problems and problem situations in digital environments.	situacijas skaitmeninėje aplinkoje.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	vertinti duomenis, informaciją ir skaitmeninį turinį	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analizuoti, lyginti ir kritiškai vertinti duomenų šaltinių, informacijos ir skaitmeninio turinio tikėtumą ir patikimumą. Analizuoti, aiškinti ir kritiškai vertinti duomenis, informaciją ir skaitmeninį turinį.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	kompiuterinis programavimas	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Programinės įrangos kūrimo metodai ir principai, kaip antai, analizė, algoritmai, kodavimas, testavimas ir programavimo modelių (pvz., į objektą orientuotas programavimas, funkcinis programavimas) bei programavimo kalbų sudarymas.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-	identify digital competence gaps	nustatyti skaitmeninių įgūdžių spragas	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence	Suprasti, kuriose srityse reikia tobulinti arba atnaujinti savo skaitmeninius įgūdžius. Sugebėti padėti kitiems ugdyti savo skaitmeninius įgūdžius. Ieškoti galimybių tobulėti

	cf24d3a236e7			and to keep up-to-date with the digital evolution.	development. Seek opportunities for self-development and keep up-to-date with the digital evolution.	savarankiškai ir neatsilikti nuo skaitmeninės raidos.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	bendradarbiauti naudojantis skaitmeninėmis technologijomis	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Naudoti skaitmenines priemones ir technologijas bendradarbiavimo procesams ir bendrai rengti bei bendrai kurti išteklius ir žinias.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	saugoti asmens duomenis ir privatumą	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a “Privacy policy” to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a “Privacy policy” to inform how personal data is used.	Saugoti asmens duomenis ir privatumą skaitmeninėje aplinkoje. Suprasti, kaip naudoti asmeninę informaciją ir ją dalytis, kartu pačiam apsaugant ir apsaugant kitus nuo žalos. Suprasti, kad teikiant skaitmenines paslaugas taikoma „privatumo politika“, siekiant informuoti, kaip naudojami asmens duomenys.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-	share through digital technologies	dalytis informacija naudojantis skaitmeninėmis technologijomis	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Dalytis duomenimis, informacija ir skaitmeniniu turiniu su kitais naudojant tinkamas skaitmenines technologijas. Atlikti tarpininko

	2dca53290ff4				about referencing and attribution practices.	vaidmenį, žinoti nurodymo ir susiejimo praktiką.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	nustatyti poreikius ir technologinius sprendimus	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Įvertinti poreikius ir nustatyti, įvertinti, pasirinkti ir naudoti skaitmenines priemones ir galimus technologinius jų sprendimo būdus. Pakoreguoti ir pritaikyti savo skaitmeninę aplinką prie asmeninių poreikių (pavyzdžiui, prieinamumo).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	valdyti duomenis, informaciją ir skaitmeninį turinį	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Tvarkyti, saugoti ir naudoti duomenis, informaciją ir turinį skaitmeninėje aplinkoje. Organizuoti ir tvarkyti juos struktūruotoje aplinkoje.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integruoti ir plėtoti skaitmeninį turinį	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Keisti, tobulinti ir integruoti informaciją ir turinį į esamas žinias, kad būtų sukurtas naujas, originalus ir aktualus turinys bei žinios.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	plėtoti skaitmeninį turinį	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Kurti ir redaguoti skirtingų formatų skaitmeninį turinį, išreikšti save naudojantis skaitmeninėmis priemonėmis.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	naudotis interneto etiketo taisyklėmis	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Taikyti elgesio normas ir praktinę patirtį naudojant skaitmenines technologijas ir bendraujant skaitmeninėje aplinkoje. Pritaikyti komunikacijos strategijas konkrečiai auditorijai ir atkreipti dėmesį į kultūrų ir kartų įvairovę skaitmeninėje aplinkoje.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	palaikyti ryšius naudojantis skaitmeninėmis technologijomis	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Palaikyti ryšius naudojantis įvairiomis skaitmeninėmis technologijomis ir suprasti, kokios skaitmeninių ryšių priemonės tinkamos tam tikromis aplinkybėmis.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	autorių teisės ir licencijos, susijusios su skaitmeniniu turiniu	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Suprasti, kaip autorių teisės ir licencijos taikomos duomenims, informacijai ir skaitmeniniam turiniui.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	valdyti tapatybę skaitmeninę	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Kurti ir valdyti vieną arba kelias skaitmenines tapatybes, gebėti apsaugoti savo reputaciją, tvarkyti naudojantis keletu skaitmeninių priemonių, aplinkų ir paslaugų generuojamus duomenis.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	apsaugoti aplinką nuo skaitmeninių technologijų poveikio	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Žinoti skaitmeninių technologijų ir jų naudojimo poveikį aplinkai.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	saugoti sveikatą ir gerovę naudojantis skaitmeninėmis technologijomis	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Sugebėti išvengti pavojaus sveikatai ir grėsmės fizinei ir psichologinei gerovei naudojant skaitmenines technologijas. Sugebėti save ir kitus apsaugoti nuo galimų pavojų skaitmeninėje aplinkoje (pvz., patyčių elektroninėje erdvėje). Būti susipažinusi su skaitmeninėmis technologijomis, skirtomis socialinei gerovei ir socialinei įtraukčiai.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	saugoti IRT prietaisus	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Apsaugoti prietaisus ir skaitmeninį turinį, suprasti riziką ir grėsmes skaitmeninėje aplinkoje. Išmanyti saugos ir saugumo priemonės ir deramai atsižvelgti į jų patikimumą ir privatumą. Naudotis priemonėmis ir metodais, kuriais būtų kuo labiau padidintas informacinių ir ryšių technologijų (IRT) prietaisų ir informacijos, pvz., slaptažodžių, skaitmeninių parašų, biometrijos, saugumas kontroliuojant prieigą ir apsaugant tokias sistemas, kaip, pvz., užkardos, antivirusinės programos ir brukalo filtrai.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		peržiūrėti ir filtruoti duomenis, informaciją bei skaitmeninį turinį ir jų ieškoti	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Aiškiai nurodyti informacijos poreikius, ieškoti duomenų, informacijos ir turinio skaitmeninėje aplinkoje, gauti galimybę su jais susipažinti ir juos naršyti. Kurti ir atnaujinti asmeninės paieškos strategijas.

3.17. Maltese

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	soluzzjoni tal-problemi tekniċi	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Identifika problemi tekniċi meta tħaddem apparat u tuża ambjenti diġitali, u solvihom (mill-korrezzjoni ta' problemi għas-soluzzjoni ta' problemi aktar kumplessi).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	involvement fiċ-ċittadinanza permezz ta' teknoloġiji diġitali	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Ipparteċipa fis-soċjetà permezz tal-użu ta' servizzi diġitali pubbliċi u privati. Fittex opportunitajiet għall-awto-tiżi u għal ċittadinanza parteċipattiva permezz ta' teknoloġiji diġitali adatti.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	użu kreattiv tat-teknoloġiji diġitali	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Uża għodod u teknoloġiji diġitali biex toħloq l-għarfien u tinnova l-proċessi u l-prodotti. Impenja ruġek individwalment u b'mod kollettiv fl-ipproċessar konjittiv biex tifhem u issolvi l-problemi kunċettwali u s-sitwazzjonijiet ta' problema f'ambjenti diġitali.

					problems and problem situations in digital environments.	
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	evalwazzjoni tad-data, tal-informazzjoni u tal-kontenut diġitali	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analizza, qabbel u evalwa b'mod kritiku l-kredibbiltà u l-affidabbiltà ta' sorsi ta' data, informazzjoni u kontenut diġitali. Analizza, interpreta u evalwa b'mod kritiku d-data, l-informazzjoni u l-kontenut diġitali.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	programmar tal-kompjuter	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	It-tekniki u l-prinċipji tal-iżvilupp tas-softwer, bħal analiżi, algoritmi, ikkondjar, ittestjar u kumpilazzjoni ta' mudelli ta' programmar (eż. programmar orjentat lejn l-oġġett, programmar funzjonali) u ta' lingwi tal-ipprogrammar.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	identifikazzjoni tad-diskrepanzi fil-kompetenzi diġitali	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Ifhem fejn il-kompetenza diġitali ta' dak li jkun jeħtieġ li tittejjeb jew tiġi aġġornata. Kun kapaċi tappoġġja oħrajn bl-iżvilupp tal-kompetenzi diġitali tagħhom. Fittex opportunitajiet għal żvilupp personali u ibqa'

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	aġġornat mal-evoluzzjoni diġitali.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	kollaborazzjoni permezz ta' teknoloġiji diġitali	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Uża għodda u teknoloġiji diġitali għal proċessi kollaborattivi, u għall-konstruzzjoni u l-koħolqien tar-riżorsi u l-għarfien.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	protezzjoni tad-data personali u tal-privatezza	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a “Privacy policy” to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a “Privacy policy” to inform how personal data is used.	Ipproteġi d-data personali u l-privatezza f'ambjenti diġitali. Ifhem l-użu u kkondividi informazzjoni identifikabbli personalment filwaqt li wieħed ikun jista' jipproteġi lilu nnifsu u oħrajn minn danni. Ifhem li s-servizzi diġitali jużaw “Politika ta' privatezza” biex jinfurmaw kif tintuża d-data personali.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	kondivizzjoni permezz ta' teknoloġiji diġitali	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Aqsam id-data, l-informazzjoni u l-kontenut diġitali ma' oħrajn permezz ta' teknoloġiji diġitali xierqa. Aġixxi bħala intermedjarju, kun af dwar il-prattiki ta' referenzjar u ta' attribuzzjoni.

					about referencing and attribution practices.	
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	identifikazzjoni tal-ħtiġijiet u tar-risponsi teknoloġiċi	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Ilvaluta l-ħtiġijiet u identifika, evalwa, aghżel u uża għodod diġitali u risponsi teknoloġiċi possibbli biex issolvihom. Agġusta u ppersonalizza l-ambjenti diġitali skont il-ħtiġijiet personali (eż. l-aċċessibbiltà).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	ġestjoni tad-data, informazzjoni u kontenut diġitali	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organizzazzjoni, f'żin u kisba ta' data, ta' informazzjoni u ta' kontenut f'ambjenti diġitali. Organizzazzjoni u pproċessar tagħhom f'ambjent strutturat.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrizzjoni u elaborazzjoni mill-ġdid tal-kontenut diġitali	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modifika, irfinar, titjib u integrizzjoni ta' informazzjoni u ta' kontenut f'korp eżistenti ta' għarfien sabiex jinholqu kontenut u għarfien ġodda, originali u rilevanti.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	żvilupp tal-kontenut diġitali	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Ħolqien u editjar ta' kontenut diġitali f'formati differenti, għall-espressjoni personali permezz ta' mezzi diġitali.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	użu tal-konvenzjonijiet onlajn tan-netikett	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Applika normi ta' mgħiba u għarfien filwaqt li tuża teknoloġiji diġitali u interaġixxi f'ambjenti diġitali. Adatta l-istrategiji ta' komunikazzjoni għall-udjenza speċifika u kun af id-diversità kulturali u ġenerazzjonali f'ambjenti diġitali.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	interaġġjoni permezz ta' teknoloġiji diġitali	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Interaġixxi permezz ta' varjetà ta' teknoloġiji diġitali u ifhem mezzi ta' komunikazzjoni diġitali xierqa għal kuntest partikolari.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	drittijiet tal-awtur u liċenzji marbuta mal-kontenut diġitali	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Fehm ta' kif id-drittijiet tal-awtur u l-liċenzji japplikaw għal dejta, informazzjoni u kontenut diġitali.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	immaniġġjar tal-identità diġitali	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Oħloq u mmaniġġja identità diġitali waħda jew aktar, kun kapaċi tipproteġi r-reputazzjoni tiegħek stess, ittratta d-data li tiġi prodotta permezz ta' diversi għodod, ambjenti u servizzi diġitali.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	protezzjoni tal-ambjent mill-impatt tat-teknoloġiji diġitali	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Kun konxju mill-impatt ambjentali tat-teknoloġiji diġitali u l-użu tagħhom.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	protezzjoni tas-saħħa u tal-benesseri fl-użu tat-teknoloġiji diġitali	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Kun kapaċi tevita riskji għas-saħħa u theddid għal benesseri fiżiku u psikoloġiku filwaqt li tuża t-teknoloġiji diġitali. Kun kapaċi pproteġi lilek innifsek u oħrajn minn perikli possibbli f'ambjenti diġitali (eż. il-bullying fuq l-internet). Kun konxju dwar it-teknoloġiji diġitali għall-benesseri soċjali u l-inkluzjoni soċjali.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	protezzjoni tal-apparati tal-ICT	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Il-protezzjoni tal-apparati u l-kontenut diġitali, u l-fehim tar-riskji u t-theddid f'ambjenti diġitali. L-għarfien dwar miżuri ta' sikurezza u sigurtà u kunsiderazzjoni xierqa tal-affidabbiltà u l-privatezza. Isir użu minn għodod u metodi li jimmassimizzaw is-sigurtà tal-apparat u tal-informazzjoni tal-ICT billi jikkontrollaw l-aċċess, bħal passwords, firem diġitali, bijometrija, u sistemi ta' protezzjoni bħal firewall, antivirus, filtri tal-ispam.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		ibbrawżjar, tiftix u filtrazzjoni ta' data, tal-informazzjoni u tal-kontenut diġitali	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	L-artikolazzjoni tal-htigijiet ta' informazzjoni, it-tfittxija ta' data, informazzjoni u kontenut f'ambjenti diġitali, l-aċċess għalihom u n-navigazzjoni bejniethom. Il-ħolqien u l-aġġornament ta' strateġiji ta' tiftix personali.

3.18. Norwegian

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	løse tekniske problemer	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Identifisere tekniske problemer ved bruk av enheter og digitale miljøer og løse dem (alt fra feilsøking til å løse mer komplekse problemer).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	engasjere seg i statsborgerskap gjennom digitale teknologier	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Delta i samfunnet ved å ta i bruk offentlige og private digitale tjenester. Søke muligheter for selvinnrett og for deltakelse gjennom passende digitale teknologier.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	bruke digitale teknologier kreativt	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Bruke digitale verktøy og teknologier for å skape kunnskap og for å innovere prosesser og produkter. Delta i kognitiv behandling enkeltvis og samlet for å forstå og løse konseptuelle problemer og problemsituasjoner i digitale miljøer.

					problems and problem situations in digital environments.	
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	evaluere data, informasjon og digitalt innhold	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analysere, sammenligne og kritisk evaluere troverdigheten og påliteligheten til datakilder, informasjon og digitalt innhold. Analysere, tolke og kritisk evaluere dataene, informasjonen og det digitale innholdet.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	dataprogrammering	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Teknikker og prinsipper for programvareutvikling, som analyse, algoritmer, koding, testing og sammenstilling av programmeringsparadigmer (f.eks. gjenstandsorientert programmering, funksjonell programmering) og av programspråk.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	identifisere gap innen digital kompetanse	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Forstå hvor ens egen digitale kompetanse må forbedres eller oppdateres. Kunne støtte andre med sin digitale kompetanseutvikling. Søke etter muligheter til selvutvikling og holde seg

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	oppdatert med den digitale utviklingen.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	samarbeide gjennom digitale teknologier	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Bruke digitale verktøy og teknologier i samarbeidsprosesser, og bidra til sambygging og samskaping av ressurser og kunnskap.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	beskytte personopplysninger og personvern	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Beskytte personopplysninger og personvern i digitale miljøer. Forstå hvordan bruke og dele personlig identifiserbare opplysninger samtidig som du beskytter deg selv og andre mot skade. Forstå at digitale tjenester benytter en «personvernpolitikk» for å informere om hvordan personopplysninger brukes.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	dele gjennom digitale teknologier	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Dele data, opplysninger og digitalt innhold med andre gjennom egnet digital teknologi. Fungere som formidler og kjenne til praksis for referanser og attribusjon.

					about referencing and attribution practices.	
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	identifisere behov og tekniske tiltak	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Vurdere behov og identifisere, vurdere, velge ut og bruke digitale verktøy og mulige teknologiske svar for å løse dem. Justere og tilpasse digitale miljøer etter personlige behov (f.eks. tilgjengelighet).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	administrere data, informasjon og innhold	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organisere, lagre og hente ut data, informasjon og innhold i digitale omgivelser. Organisere og behandle dem i et strukturert miljø.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrere gjennomarbeide og innhold på nytt	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Endre, forfine, forbedre og integrere opplysninger og innhold til eksisterende kunnskap for å skape nytt, originalt og relevant innhold og kunnskap.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	utvikle digitalt innhold	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Utarbeide og redigere digitalt innhold i ulike formater. Uttrykke seg ved hjelp av digitale verktøy.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	bruke elektroniske konvensjoner for nettiquette	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Bruke atferdsnormer og fagkunnskap ved hjelp av digital teknologi og ved å samhandle i digitale miljøer. Tilpasse kommunikasjonsstrategier til det spesifikke publikummet, og være oppmerksom på kulturelt og generasjonsmessig mangfold i digitale miljøer.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	samhandle gjennom digitale teknologier	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Samhandle gjennom ulike typer digital teknologi, og forstå relevante metoder for digital kommunikasjon i en gitt sammenheng.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	opphavsrett og lisenser knyttet til digitalt innhold	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Forstå hvordan opphavsrett og lisenser får brukes på data, informasjon og digitalt innhold.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	administrere identitet digital	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Skape og forvalte ett eller flere digitale identiteter, være i stand til å beskytte eget omdømme, håndtere de dataene som produseres gjennom flere digitale verktøy, miljøer og tjenester.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	beskytte miljøet mot påvirkningen fra digitale teknologier	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Være oppmerksom på miljøvirkningene av digital teknologi og bruken av dem.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	beskytte helse og velvære under bruk av digitale teknologier	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Være i stand til å unngå helsefare og trusler mot fysisk og psykisk velferd når digital teknologi brukes. Kunne beskytte seg og andre fra mulige farer i digitale miljøer (f.eks. digital mobbing). Være oppmerksom på digitale teknologier for sosial velferd og sosial integrasjon.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	beskytte IKT-enheter	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Beskytte utstyr og digitalt innhold, og forstå risikoer og trusler i digitale miljøer. Vite om sikkerhetstiltak og ta behørig hensyn til pålitelighet og personvern. Bruke verktøy og metoder som gir størst mulig sikkerhet for IKT-enheter og -informasjon ved å kontrollere tilgangen, for eksempel passord, digitale signaturer, biometri og beskyttelsessystemer, for eksempel brannmur, antivirus, søppelpostfiltre.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		bla gjennom, søke i, og filtrere data, informasjon og digitalt innhold	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Artikulere informasjonsbehov, søke etter data, informasjon og innhold i digitale miljøer, få tilgang til dem og navigere mellom dem. Opprette og oppdatere strategier for personlig søk.

3.19. Polish

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	rozwiązywać problemy techniczne	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Identyfikować problemy techniczne podczas obsługi urządzeń i korzystania z otoczenia cyfrowego oraz rozwiązywać problemy (od prostych do bardziej złożonych).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	uczestnictwo w działaniach społecznościowych wykorzystaniem technologii cyfrowych	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Uczestnictwo w życiu społecznym poprzez korzystanie z publicznych i prywatnych usług cyfrowych. Poszukiwanie możliwości samodzielności i obywatelskiego uczestnictwa za pomocą odpowiednich technologii cyfrowych.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	kreatywne wykorzystanie technologii cyfrowych	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Wykorzystanie cyfrowych narzędzi i technologii do tworzenia wiedzy oraz innowacyjnych procesów i produktów. Wspólne i indywidualne angażowanie się w procesy kognitywne w celu zrozumienia i rozwiązania problemów

					problems and problem situations in digital environments.	konceptyjnych i problematycznych sytuacji w środowiskach cyfrowych.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	analiza danych, informacji i treści cyfrowych	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analiza, porównywanie i krytyczna ocena wiarygodności i rzetelności źródeł danych, informacji i treści cyfrowych. Analizować, interpretować i krytycznie oceniać dane, informacje i treści cyfrowe.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	programowanie komputerowe	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Techniki i zasady opracowywania oprogramowania, takie jak analiza, algorytmy, kodowanie, testowanie i kompilacja paradygmatów programowania (np. programowanie ukierunkowane na cel, programowanie funkcjonalne) oraz języków programowania.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	rozpoznawanie braków w zakresie kompetencji cyfrowych	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Określać obszary poprawy lub aktualizacji własnych kompetencji cyfrowych. Wspierać innych na drodze do rozwoju kompetencji cyfrowych. Poszukiwać możliwości rozwoju własnej osoby i nadążać za rozwojem

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	technologii w ramach rewolucji cyfrowej.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	współpraca wykorzystaniem technologii cyfrowych	Z To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Używać cyfrowych narzędzi i technologii do procesów współpracy oraz do wspólnego budowania i tworzenia zasobów oraz wiedzy.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	ochrona danych osobowych i prywatności	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Chronić dane osobowe i prywatność w środowisku cyfrowym. Rozumieć, jak wykorzystywać i udostępniać dane osobowe, jednocześnie chroniąc siebie i innych przed szkodami. Rozumieć, że w usługach cyfrowych stosowana jest „polityka prywatności” w celu informowania o sposobie wykorzystywania danych osobowych.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	łączenie i kontakt za pomocą środków cyfrowych	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Udostępniać dane, informacje i treści cyfrowe innym osobom za pomocą odpowiednich technologii cyfrowych. Działać jako pośrednik, wiedzieć o praktykach referencji i przypisywania.

					about referencing and attribution practices.	
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	identyfikacja potrzeb i rozwiązań technologicznych	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Oceniać potrzeby i identyfikować, oceniać, wybierać i używać narzędzi cyfrowych oraz możliwych rozwiązań technologicznych w celu ich rozwiązania. Dostosowywać i personalizować środowiska cyfrowe do własnych potrzeb (np. dostępność).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	organizacja danych, informacji i treści cyfrowych	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organizować, przechowywać i pobierać dane, informacje i treści w środowiskach cyfrowych. Organizować i przetwarzać je w zorganizowanym środowisku.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integracja i ponowne przetwarzanie treści cyfrowych	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modyfikować, udoskonalać, usprawniać i włączać informacje i treści w istniejące zasoby wiedzy w celu tworzenia nowych, oryginalnych i istotnych treści i zasobów wiedzy.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	opracowywanie treści cyfrowych	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Tworzyć i edytować treści cyfrowe w różnych formatach, wyrażając siebie za pomocą środków cyfrowych.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	stosować zasady netykiety	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Stosować normy zachowania i know-how przy korzystaniu z technologii cyfrowych i interakcjach w środowisku cyfrowym. Dostosowywać strategie komunikacyjne do konkretnych odbiorców oraz mieć świadomość różnorodności kulturowej i pokoleniowej w środowisku cyfrowym.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	interakcja z wykorzystaniem technologii cyfrowych	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Współdziałanie za pomocą różnych technologii cyfrowych i zrozumienie odpowiednich środków komunikacji cyfrowej w danym kontekście.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	znajomość prawa autorskiego i licencji związanych z zasobami cyfrowymi	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Zrozumienie, w jaki sposób prawa autorskie i licencje mają zastosowanie do danych, informacji i treści cyfrowych.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	zarządzanie tożsamością cyfrową	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Tworzyć co najmniej jedną tożsamość cyfrową i zarządzać nią, chronić swoją reputację, pracować z danymi tworzonymi przez siebie przy użyciu kilku narzędzi, środowisk i usług cyfrowych.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	ochrona środowiska naturalnego przed szkodami związanymi z technologiami cyfrowymi	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Mieć świadomość wpływu technologii cyfrowych i ich wykorzystania na środowisko.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	zapewnianie ochrony zdrowia i dobrostanu przy stosowaniu technologii cyfrowych	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Być w stanie zapobiegać zagrożeniom dla zdrowia i zagrożeniom dla dobrostanu fizycznego i psychicznego przy stosowaniu technologii cyfrowych. Być w stanie chronić siebie przed ewentualnymi zagrożeniami w środowisku cyfrowym (np. cyberprzemoc). Być świadomym technologii cyfrowych na rzecz dobrobytu społecznego i włączenia społecznego.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	chronić urządzenia ICT	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Ochrona urządzeń i treści cyfrowych oraz rozumienie ryzyka i zagrożeń w środowisku cyfrowym. Znajomość środków w zakresie bezpieczeństwa i ochrony oraz należyte uwzględnianie zagadnień wiarygodności oraz prywatności. Korzystanie z narzędzi i metod, które pozwalają na maksymalizację bezpieczeństwa urządzeń ICT i informacji poprzez środki kontroli dostępu, takich jak hasła, podpisy cyfrowe, biometria i systemy ochronne, takie jak zaporę sieciową, filtry antywirusowe czy antyspamowe.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		przeglądanie, wyszukiwanie i filtrowanie danych, informacji i treści cyfrowych	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Określanie potrzeb w zakresie informacyjnym, wyszukiwanie danych, informacji i treści w środowisku cyfrowym, dostęp do nich i nawigowanie między nimi. Tworzenie i aktualizowanie własnych strategii wyszukiwania.

3.20. Portuguese

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	resolver problemas técnicos	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Identificar os problemas técnicos na operação dos dispositivos e utilização dos ambientes digitais e resolvê-los (desde a deteção do problema à resolução de problemas mais complexos).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	envolver-se na cidadania através das tecnologias digitais	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participar na sociedade através da utilização de serviços digitais públicos e privados. Procurar oportunidades de autonomia e cidadania participativa através de tecnologias digitais adequadas.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	utilizar de forma criativa as tecnologias digitais	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Utilizar ferramentas e tecnologias digitais para criar conhecimento e inovar processos e produtos. Participar, individual e coletivamente, no processamento cognitivo para compreender e resolver problemas conceptuais e

					problems and problem situations in digital environments.	situações problemáticas em ambientes digitais.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	avaliar dados, informações e conteúdos digitais	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analisar, comparar e avaliar de forma crítica a credibilidade e a fiabilidade das fontes de dados, informações e conteúdos digitais. Analisar, interpretar e avaliar de forma crítica os dados, informações e conteúdos digitais.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	programação informática	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	As técnicas e os princípios de desenvolvimento de software, como análise, algoritmos, codificação, teste e compilação de paradigmas de programação (por exemplo, programação orientada por objetos, programação funcional) e de linguagens de programação.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	identificar lacunas nas competências digitais	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Estar ciente dos aspetos a melhorar ou atualizar nas suas próprias competências digitais. Ser capaz de apoiar outros com o seu desenvolvimento de competências digitais. Procurar oportunidades de

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	autodesenvolvimento e acompanhar a evolução digital.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	colaborar através das tecnologias digitais	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Utilizar ferramentas e tecnologias digitais para processos de colaboração e para a coconstrução e cocriação de recursos e conhecimentos.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	proteger dados pessoais e privacidade	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a “Privacy policy” to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a “Privacy policy” to inform how personal data is used.	Proteger dados pessoais e privacidade em ambientes digitais. Compreender como utilizar e partilhar informações pessoais identificáveis, sendo ao mesmo tempo capaz de proteger a própria pessoa e outras pessoas contra danos. Compreender que os serviços digitais utilizam uma «política de privacidade» para informar sobre o modo como os dados pessoais são utilizados.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	partilhar através das tecnologias digitais	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Partilhar dados, informações e conteúdos digitais com terceiros através de tecnologias digitais adequadas. Atuar como intermediário e conhecer as

					about referencing and attribution practices.	práticas de referência e atribuição.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	identificar necessidades e respostas tecnológicas	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Avaliar as necessidades e identificar, avaliar, seleccionar e utilizar ferramentas digitais e as possíveis respostas tecnológicas para a sua resolução. Ajustar e personalizar ambientes digitais para satisfação de necessidades pessoais (por exemplo, acessibilidade).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	gerir dados, informações e conteúdos digitais	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organizar, armazenar e recuperar dados, informações e conteúdos em ambientes digitais. Organizá-los e processá-los num ambiente estruturado.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrar e reelaborar conteúdos digitais	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modificar, afinar, melhorar e integrar informações e conteúdos num acervo de conhecimentos já existente, a fim de criar conteúdos e conhecimentos novos, originais e relevantes.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	desenvolver conteúdos digitais	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Criar e editar conteúdos digitais em diferentes formatos, expressar-se através de meios digitais.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	utilizar convenções de netiqueta	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Aplicar normas comportamentais e conhecimentos, utilizando simultaneamente tecnologias digitais e interagindo em ambientes digitais. Adaptar as estratégias de comunicação ao público específico e estar ciente da diversidade cultural e geracional nos ambientes digitais.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	interagir através das tecnologias digitais	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Interagir através de uma série de tecnologias digitais e compreender os meios de comunicação digital adequados para um determinado contexto.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	licenças e direitos de autor relacionados com conteúdos digitais	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Compreender de que forma as licenças e direitos de autor se aplicam aos dados, informações e conteúdos digitais.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	gerir identidades digitais	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Criar e gerir uma ou várias identidades digitais, ser capaz de proteger a sua própria reputação, tratar os dados produzidos em várias ferramentas, ambientes e serviços digitais.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	proteger o ambiente do impacto das tecnologias digitais	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Estar ciente do impacto ambiental das tecnologias digitais e da sua utilização.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	proteger a saúde e o bem-estar durante o uso das tecnologias digitais	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Ser capaz de evitar riscos para a saúde e ameaças ao bem-estar físico e psicológico durante o uso das tecnologias digitais. Ser capaz de proteger a própria pessoa e outras pessoas contra os possíveis perigos em ambientes digitais (por exemplo, a ciberperseguição). Utilizar as tecnologias digitais em prol do bem-estar social e da inclusão social.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	instalar mecanismos de segurança em aparelhos de TIC	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Proteger dispositivos e conteúdos digitais e compreender os riscos e ameaças existentes em ambientes digitais. Conhecer as medidas de segurança e proteção e ter em devida consideração a fiabilidade e a privacidade. Utilizar ferramentas e métodos que maximizem a segurança de aparelhos e informações de TIC através de métodos de controlo de acesso, como senhas, assinaturas digitais, dados biométricos, bem como de sistemas de proteção, como firewall, antivírus e filtros de spam.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		pesquisar, procurar e filtrar dados, informações e conteúdos digitais	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Articular as necessidades de informação, procurar dados, informações e conteúdos em ambientes digitais, aceder aos mesmos e navegar entre eles. Criar e atualizar estratégias de pesquisa pessoal.

3.21. Romanian

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	soluționează probleme tehnice	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Identifică problemele tehnice ivite în timpul operării dispozitivelor și utilizării mediilor digitale și rezolvarea acestora (de la depanare la rezolvarea unor probleme mai complexe).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	stimulează spiritul civic prin intermediul tehnologiilor digitale	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participă în cadrul societății utilizând serviciile digitale publice și private. Caută oportunități de auto-responsabilizare și de cetățenie participativă prin intermediul tehnologiilor digitale adecvate.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	utilizare creativă a tehnologiilor digitale	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Utilizează instrumente și tehnologii digitale pentru dezvoltarea de cunoștințe și pentru inovarea proceselor și produselor. Se implică, în mod individual și colectiv, în prelucrarea cognitivă pentru a înțelege și soluționa problemele conceptuale și

					problems and problem situations in digital environments.	situațiile problematice din mediul digital.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	evaluează date, informații și conținut digital	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analizează, compară și evaluează critic credibilitatea și fiabilitatea surselor de date, a informațiilor și conținutului digital. Analizează, interpretează și evaluează critic datele, informațiile și conținutul digital.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	programare pe calculator	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Tehnicile și principiile dezvoltării de software, cum ar fi analiza, algoritmii, codificarea, testarea și compilarea paradigmelor de programare (de exemplu, programarea orientată spre obiect, programarea funcțională) și a limbajelor de programare.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	identifică deficite de competență digitală	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Înțelege domeniile în care competențele digitale proprii trebuie îmbunătățite sau actualizate. Este în măsură să îi sprijine pe alții în ceea ce privește dezvoltarea competențelor lor digitale. Caută oportunități de

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	dezvoltare personală și ține pasul cu evoluția digitală.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	colaborează cu ajutorul tehnologiilor digitale	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Utilizează instrumente și tehnologii digitale pentru procese de cooperare, precum și pentru construirea în comun și crearea în comun a resurselor și a cunoștințelor.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	protejează datele cu caracter personal și confidențialitatea	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a “Privacy policy” to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a “Privacy policy” to inform how personal data is used.	Protejează datele cu caracter personal și confidențialitatea în mediile digitale. Înțelege modul de utilizare și de partajare a informațiilor care pot fi identificate personal, având capacitatea, în același timp, să-și protejeze propria persoană și alte persoane împotriva daunelor. Înțelege că serviciile digitale utilizează o „Politică de confidențialitate” pentru a anunța modul în care se folosesc datele cu caracter personal.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-	share through digital technologies	partajează conținut prin intermediul tehnologiilor digitale	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Face schimb de date, informații și conținut digital cu alte persoane prin tehnologii digitale adecvate. Acționează în calitate de intermediar,

	2dca53290ff4				about referencing and attribution practices.	cunoaște practicile de corelare și de atribuire.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	identifică problemele și soluțiile tehnologice	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Evaluează nevoile și identifică, evaluează, selectează și utilizează instrumentele digitale și posibilele soluții tehnologice pentru a le soluționa. Adaptează și personalizează mediul digital la nevoile personale (de exemplu, accesibilitatea).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	gestionează date, informații și conținut digital	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organizează, stochează și extrage date, informații și conținut în mediile digitale. Le organizează și le prelucrează într-un mediu structurat.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrează și recreează conținut digital	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modifică, perfecționează, îmbunătățește și integrează informații și conținut într-o colecție de cunoștințe existentă pentru a crea conținut și cunoștințe noi, originale și relevante.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	dezvoltă conținut digital	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Creează și editează conținut digital în diferite formate, se exprimă prin mijloace digitale.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	utilizează convențiile online specifice netiquette	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Aplică norme comportamentale și know-how, utilizând totodată tehnologiile digitale și interacționând în medii digitale. Adaptează strategii de comunicare la publicul specific și cunoaște diversitatea culturală și de generații în mediile digitale.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	interacționează prin intermediul tehnologiilor digitale	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Interacționează prin intermediul unei varietăți de tehnologii digitale și înțelege mijloacele digitale adecvate de comunicare pentru un anumit context.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	drepturi de autor și licențe în domeniul conținutului digital	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Înțelege modul în care drepturile de autor și licențele se aplică datelor, informațiilor și conținutului digital.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	gestionează identitatea digitală	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Creează și gestionează una sau mai multe identități digitale, trebuie să fie în măsură să își protejeze reputația, se ocupă de datele pe care le produce prin intermediul mai multor instrumente, medii și servicii digitale.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	combate impactul negativ al tehnologiilor digitale asupra mediului	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Cunoaște impactul asupra mediului al tehnologiilor digitale și al utilizării acestora.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	protejează sănătatea și starea de bine la locul de muncă în cazul utilizării tehnologiilor digitale	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Este în măsură să evite riscurile pentru sănătate și amenințările la adresa bunăstării fizice și psihologice, în cazul utilizării tehnologiilor digitale. Este în măsură să își protejeze propria personală și alte persoane de posibilele pericolele care pot apărea în mediul digital (de exemplu, hărțuirea pe internet). Cunoaște tehnologiile digitale pentru bunăstarea socială și incluziunea socială.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	protejează dispozitive TIC	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Protejează dispozitive TIC și conținutul digital și înțelege riscurile și amenințările din mediile digitale. Cunoaște măsurile de siguranță și securitate și ține seama în mod corespunzător de încredere și de viața privată. Utilizează instrumente și metode care să maximizeze securitatea dispozitivelor și informațiilor TIC prin controlul accesului, cum ar fi parolele, semnăturile digitale, biometria și sistemele de protecție precum firewall, antivirus, filtre spam.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		răsfoiește, caută și filtrează date, informații și conținut digital	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Formulează clar nevoile de informare, caută date, informații și conținut în mediile digitale, le accesează și navighează prin acestea. Creează și actualizează strategii de căutare personale.

3.22. Slovak

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	riešiť technické problémy	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Identifikovať technické problémy pri používaní zariadení a digitálnych prostredí a riešiť ich (od riešenia bežných problémov až po riešenie zložitejších problémov).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	zapájať sa do občianskeho života prostredníctvom digitálnych technológií	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Podieľať sa na spoločnosti prostredníctvom využívania verejných a súkromných digitálnych služieb. Hľadať možnosti vlastnej emancipácie a participatívneho občianstva prostredníctvom vhodných digitálnych technológií.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	tvorivo využívať digitálne technológie	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and problem situations in digital environments.	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive processing to understand and resolve conceptual	Využívať digitálne nástroje a technológie na vytváranie znalostí a inovačných procesov a produktov. Individuálne a kolektívne sa zapájať do kognitívneho spracovania s cieľom pochopiť a riešiť koncepčné

					problems and problem situations in digital environments.	problémy a problémové situácie v digitálnom prostredí.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	vyhodnocovať údaje, informácie a digitálny obsah	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analýzovať, porovnávať a kriticky vyhodnocovať dôveryhodnosť a spoľahlivosť zdrojov údajov, informácií a digitálneho obsahu. Analýzovať, interpretovať a kriticky vyhodnocovať údaje, informácie a digitálny obsah.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	počítačové programovanie	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Techniky a zásady vývoja softvéru, ako sú analýza, algoritmy, kódovanie, testovanie a kompilovanie programových vzorov (napr. programovanie orientované na objekt, funkčné programovanie) a programovacích jazykov.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-cf24d3a236e7	identify digital competence gaps	identifikovať nedostatky v digitálnych kompetenciách	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek opportunities for self-development	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their digital competence development. Seek	Porozumieť tomu, kde je potrebné zlepšiť alebo aktualizovať vlastné digitálne kompetencie. Dokázať podporovať iných pri rozvoji ich digitálnych kompetencií. Hľadať príležitosti pre osobný

				and to keep up-to-date with the digital evolution.	opportunities for self-development and keep up-to-date with the digital evolution.	rozvoj a udržiavať krok s digitálnym vývojom.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	spolupracovať prostredníctvom digitálnych technológií	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Využívať digitálne nástroje a technológie na procesy spolupráce a na spoločné budovanie a vytváranie zdrojov a poznatkov.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	chrániť osobné údaje a súkromie	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Chrániť osobné údaje a súkromie v digitálnom prostredí. Porozumieť tomu, ako používať a vymieňať si osobne identifikovateľné informácie a zároveň byť schopný chrániť seba a iných pred škodami. Porozumieť tomu, že digitálne služby využívajú „politiku ochrany osobných údajov“; informovať, ako sa osobné údaje používajú.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-2dca53290ff4	share through digital technologies	zdieľať prostredníctvom digitálnych technológií	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an intermediary, know	Zdieľať údaje, informácie a digitálny obsah s inými pomocou vhodných digitálnych technológií. Pôsobiť ako sprostredkovateľ, poznať referenčné a priradovacie postupy.

					about referencing and attribution practices.	
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	identifikovať potreby a technologické riešenia	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Posúdiť potreby a identifikovať, hodnotiť, vyberať a používať digitálne nástroje a možné technologické riešenia na ich riešenie. Upraviť digitálne prostredie a prispôsobiť ho osobným potrebám (napr. dostupnosť).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	spravovať údaje, informácie a digitálny obsah	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organizovanie, uchovávanie a vyhľadávanie údajov, informácií a obsahu v digitálnom prostredí. Ich organizovanie a spracovanie v štruktúrovanom prostredí.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrovať a opätovne spracúvať digitálny obsah	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Zmena, zdokonalenie, spracovanie a začleňovanie informácií a obsahu do existujúceho súboru znalostí s cieľom vytvoriť nový, pôvodný a relevantný obsah a znalosti.

Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	vyvíjať digitálny obsah	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Vytvorenie a úprava digitálneho obsahu v rôznych formátoch, vyjadrovanie digitálnymi prostriedkami.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	používať internetové konvencie netikety	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Uplatňovanie noriem správania a know-how pri používaní digitálnych technológií a interakcia v digitálnom prostredí. Prispôbiť komunikačné stratégie konkrétnemu publiku a byť si vedomý kultúrnej a generačnej rozmanitosti v digitálnom prostredí.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	interagovať prostredníctvom digitálnych technológií	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Interagovať prostredníctvom rôznych digitálnych technológií a chápať vhodné digitálne komunikačné prostriedky pre daný kontext.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-4105-9570-	copyright and licenses related to digital content	autorské práva a licencie súvisiace s digitálnym obsahom	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data, information and digital content.	Chápať, ako sa autorské práva a licencie vzťahujú na údaje, informácie a digitálny obsah.

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Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	spravovať digitálnu identitu	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Vytvoriť a spravovať jednu alebo viacero digitálnych identít, dokázať chrániť vlastnú povesť, zaoberať sa údajmi, osoba vytvára prostredníctvom niekoľkých digitálnych nástrojov, prostredí a služieb.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	chrániť životné prostredie pred vplyvom digitálnych technológií	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Uvedomovať si vplyv digitálnych technológií na životné prostredie a ich používanie.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	chrániť zdravie a pohodu pri využívaní digitálnych technológií	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Pri používaní digitálnych technológií byť schopný predchádzať zdravotným rizikám a hrozbám pre fyzickú a psychickú pohodu. Byť schopný chrániť seba a iných pred možnými nebezpečenstvami v digitálnom prostredí (napr. kybernetické šikanovanie). Byť informovaný o digitálnych technológiách pre sociálne blaho a sociálne začlenenie.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	chrániť zariadenia IKT	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Chrániť zariadenia a digitálny obsah a rozumieť rizikám a hrozbám v digitálnom prostredí. Ovládať bezpečnostné a ochranné opatrenia a venovať náležitú pozornosť spoľahlivosti a ochrane súkromia. Používať nástroje a metódy, ktoré maximalizujú bezpečnosť zariadení IKT a informácií, kontrolou prístupných údajov, ako sú heslá, digitálne podpisy, biometria a ochranné systémy ako firewall či antivírusové a spamové filtre.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		prehliadať, vyhľadávať a filtrovať údaje, informácie a digitálny obsah	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Formulovať informačné potreby, vyhľadávať údaje, informácie a obsah v digitálnom prostredí, získavať k nim prístup a orientovať sa v nich. Vytvoriť a aktualizovať stratégie osobného vyhľadávania.

3.23. Slovenian

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	reševati tehnične težave	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Opredeliti tehnične težave pri uporabi naprav in digitalnega okolja ter jih reševati (od reševanja težav do reševanja zahtevnejših problematik).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	biti dejaven kot državljani s pomočjo digitalnih tehnologij	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Sodelovati v družbi s pomočjo javnih in zasebnih digitalnih storitev. Iskati priložnosti za samostojno in participativno državljanstvo s pomočjo ustreznih digitalnih tehnologij.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	kreativno uporabljati digitalne tehnologije	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive	Uporabljati digitalna orodja in tehnologije pri ustvarjanju znanja in inovativnih postopkov ter proizvodov. Samostojno in v skupini sodelovati pri kognitivni obdelavi, da bi razumeli in

				problem situations in digital environments.	processing to understand and resolve conceptual problems and problem situations in digital environments.	rešili konceptualne težave in težave v digitalnem okolju.
Evaluating data, information and digital content	http://data.europa.eu/es-co/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	presojati podatke, informacije in vsebine	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analizirati, primerjati in kritično ocenjevati verodostojnost in zanesljivost virov podatkov, informacij in digitalnih vsebin. Analizirati, razložiti in kritično ocenjevati podatke, informacije in digitalne vsebine.
Programming	http://data.europa.eu/es-co/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	računalniško programiranje	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Tehnike in načela razvoja programske opreme, kot so analiza, algoritmi, kodiranje, preskušanje in zbiranje programskih paradigem (npr. ciljno usmerjeno načrtovanje, funkcionalno programiranje) in programskih jezikov.
Identifying digital competence gaps	http://data.europa.eu/es-co/skill/238343b1-7b51-42b3-a9ed-	identify digital competence gaps	ugotavljati vrzeli na področju digitalnih kompetenc	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their	Razumeti, kje je treba izboljšati ali posodobiti lastne digitalne kompetence. Podpirati druge pri razvoju njihovih digitalnih kompetenc. Iskati priložnosti za

	cf24d3a236e7			opportunities for self-development and to keep up-to-date with the digital evolution.	digital competence development. Seek opportunities for self-development and keep up-to-date with the digital evolution.	samorazvoj in slediti digitalnemu razvoju.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	sodelovati s pomočjo digitalnih tehnologij	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Uporabljati digitalna orodja in tehnologije za procese sodelovanja ter za sooblikovanje in soustvarjanje virov in znanja.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	varovati osebne podatke in zasebnost	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Varovati osebne podatke in zasebnost v digitalnih okoljih. Razumeti, kako uporabljati in deliti občutljive osebne podatke, hkrati pa biti sposoben zaščititi sebe in druge pred škodo. Razumeti, da digitalne storitve uporabljajo „politiko varovanja osebnih podatkov“ za obveščanje o tem, kako se uporabljajo osebni podatki.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-	share through digital technologies	deliti podatke, informacije in digitalne vsebine s pomočjo digitalnih tehnologij	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an	Deliti podatke, informacije in digitalne vsebine z drugimi s pomočjo ustreznih digitalnih tehnologij. Delovati kot

	2dca53290ff4				intermediary, know about referencing and attribution practices.	posrednik, poznati prakse sklicevanja in pripisovanja.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	ugotavljati potrebe in tehnološke odzive nanje	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Oceniti potrebe in opredeliti, ovrednotiti, izbrati in uporabiti digitalna orodja in možne tehnološke odgovore za njihovo rešitev. Nastaviti in prilagoditi digitalno okolje osebnim potrebam (npr. dostopnost).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	upravljati podatke, informacije in digitalne vsebine	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organizirati, shranjevati in pridobivati podatke, informacije in vsebino v digitalnih okoljih. Organizirati in obdelati jih v strukturiranem okolju.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrirati in nadalje razvijati digitalne vsebine	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and	Spremeniti, izpopolniti, izboljšati in vključiti informacije in vsebino v obstoječo zbirko znanja, da se ustvari nova, izvirna in ustrezna vsebina in znanje.

					relevant content and knowledge.	
Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	razvijati digitalne vsebine	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Ustvarjati in urejati digitalne vsebine v različnih formatih, izražati se prek digitalnih sredstev.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	uporabljati spletne sporazume internetnega bontona	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Uporabljati vedenjske norme in znanje ter izkušnje z digitalnimi tehnologijami in vzajemnim delovanjem v digitalnih okoljih. Prilagoditi komunikacijske strategije posebnemu občinstvu ter se zavedati kulturne in generacijske raznolikosti v digitalnih okoljih.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	sporazumevati se s pomočjo digitalnih tehnologij	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Sporazumevati se s pomočjo različnih digitalnih tehnologij in razumeti ustrezna digitalna komunikacijska sredstva za dane okoliščine.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-	copyright and licences related to digital content	avtorsko pravo in licence v zvezi z digitalnimi vsebinami	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data,	Razumevanje uporabe avtorskih pravic in licenc na področju podatkov, informacij in digitalnih vsebin.

	4105-9570-f425c6ffdc82				information and digital content.	
Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	upravljati digitalne identitete	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Ustvariti in upravljati eno ali več digitalnih identitet, varovati svoj ugled, obravnavati podatke, ustvarjene z več digitalnimi orodji, okolji in storitvami.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	varovati okolje pred vplivi digitalnih tehnologij	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Zavedati se vpliva digitalnih tehnologij na okolje in njihove uporabe.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	varovati zdravje in dobro počutje pri uporabi digitalnih tehnologij	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Preprečevati zdravstvena tveganja ter nevarnosti za telesno in duševno dobro počutje ob uporabi digitalnih tehnologij. Zaščititi sebe in druge pred morebitnimi nevarnostmi v digitalnem okolju (npr. kibernetško ustrahovanje). Poznavati digitalne tehnologije za socialno blaginjo in socialno vključenost.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	zagotavljati zaščito naprav IKT	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Zaščititi naprave in digitalne vsebine ter razumeti tveganja in nevarnosti v digitalnem okolju. Poznati varnostne ukrepe ter ustrezno upoštevati zanesljivost in zasebnost. Uporabljati orodja in metode, ki zagotavljajo čim večjo varnost naprav in informacij IKT, z nadzorom dostopa, na primer z gesli, digitalnimi podpisi, biometrijo in zaščitnimi sistemi, kot so požarni zid, filtri za neželeno pošto.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		pregledovati, iskati podatke, informacije in digitalne vsebine v brskalniku in jih filtrirati	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Izražati potrebe po informacijah, iskati podatke, informacije in vsebino v digitalnem okolju, dostopati do njih ter krmariti med njimi. Ustvariti in posodobiti osebne strategije iskanja.

3.24. Spanish

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	resolver problemas técnicos	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Identificar problemas técnicos al accionar dispositivos y utilizar entornos digitales, y resuélvalos (desde la resolución de fallos hasta problemas más complejos).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	participar en la ciudadanía a través de tecnologías digitales	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participar en la sociedad mediante el uso de servicios digitales públicos y privados. Buscar oportunidades para autocapacitación y para la ciudadanía participativa a través de las tecnologías digitales adecuadas.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	utilizar las tecnologías digitales con creatividad	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive	Utilizar herramientas y tecnologías digitales para crear conocimientos e innovar procesos y productos. Participar individual y colectivamente en el proceso cognitivo con el fin de

				problem situations in digital environments.	processing to understand and resolve conceptual problems and problem situations in digital environments.	comprender y resolver los problemas conceptuales y las situaciones problemáticas en entornos digitales.
Evaluating data, information and digital content	http://data.europa.eu/es-co/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	evaluar datos, información y contenido digitales	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analizar, comparar y evaluar críticamente la credibilidad y fiabilidad de las fuentes de datos, la información y el contenido digitales. Analizar, interpretar y evaluar críticamente los datos, la información y el contenido digitales.
Programming	http://data.europa.eu/es-co/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	programación informática	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Las técnicas y principios de desarrollo de software, como análisis, algoritmos, codificación, ensayos y compilación de modelos de programación (por ejemplo, programación orientada a objetos, programación funcional) y de lenguajes de programación.
Identifying digital competence gaps	http://data.europa.eu/es-co/skill/238343b1-7b51-42b3-a9ed-	identify digital competence gaps	identificar carencias en competencias digitales	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their	Comprender la necesidad de mejorar o actualizar la competencia digital propia. Ser capaz de apoyar a otros con el desarrollo de sus competencias digitales.

	cf24d3a236e7			opportunities for self-development and to keep up-to-date with the digital evolution.	digital competence development. Seek opportunities for self-development and keep up-to-date with the digital evolution.	Buscar oportunidades de autodesarrollo y mantenerse al día con la evolución digital.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	colaborar utilizando tecnologías digitales	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Utilizar herramientas y tecnologías digitales para los procesos de colaboración, y para la construcción conjunta y la creación conjunta de recursos y conocimientos.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	proteger datos personales y la privacidad	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a “Privacy policy” to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a “Privacy policy” to inform how personal data is used.	Proteger los datos personales y la privacidad en entornos digitales. Comprender cómo utilizar y compartir información personalmente identificable, protegiéndose al mismo tiempo a sí mismo y a terceros frente a daños. Entender que los servicios digitales utilizan una «Política de privacidad» para informar sobre cómo se utilizan los datos personales.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-	share through digital technologies	utilizar tecnologías digitales para compartir datos, información y contenido digitales	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an	Compartir datos, información y contenidos digitales con otras personas a través de las tecnologías digitales adecuadas. Actuar como intermediario, conocer las

	2dca53290ff4				intermediary, know about referencing and attribution practices.	referencias y las prácticas de atribución.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	detectar las necesidades y las respuestas tecnológicas	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Evaluar las necesidades e identificar, evaluar, seleccionar y utilizar las herramientas digitales y las posibles respuestas tecnológicas para solventarlas. Ajustar y personalizar los entornos digitales a las necesidades personales (p. ej., accesibilidad).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	gestionar datos, información y contenido digitales	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organizar, almacenar y recuperar datos, información y contenido en entornos digitales. Organizarlos y tratarlos en un entorno estructurado.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrar y reelaborar contenido digital	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and	Modificar, perfeccionar, mejorar e integrar información y contenido en un conjunto de conocimientos existente para crear contenido y conocimiento nuevo, original y pertinente.

					relevant content and knowledge.	
Developing digital content	http://data.europa.eu/esco/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	desarrollar contenido digital	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Crear y editar contenido digital en diferentes formatos, exprésese a través de los medios digitales.
Netiquette	http://data.europa.eu/esco/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	utilizar convenciones en línea sobre etiqueta de la red	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Aplicar normas de comportamiento y conocimientos durante el uso de tecnologías digitales y mientras interactúa en entornos digitales. Adaptar las estrategias de comunicación al público específico y ser consciente de la diversidad cultural y generacional en entornos digitales.
Interacting through digital technologies	http://data.europa.eu/esco/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	interactuar mediante tecnologías digitales	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Interactuar a través de una serie de tecnologías digitales y comprenda los medios de comunicación digital apropiados para un contexto dado.
Copyright and licences	http://data.europa.eu/esco/skill/a91732ce-988e-	copyright and licences related to digital content	derechos de autor y licencias relacionados con el contenido digital	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data,	Comprender cómo se aplican los derechos de autor y las licencias a los datos, la

	4105-9570-f425c6ffdc82				information and digital content.	información y los contenidos digitales.
Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	gestionar la identidad digital	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Crear y gestionar una o varias identidades digitales, ser capaz de proteger su propia reputación y tratar los datos que produce uno mismo a través de varias herramientas, entornos y servicios digitales.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	proteger el medio ambiente frente al impacto de las tecnologías digitales	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Ser consciente del impacto medioambiental de las tecnologías digitales y su uso.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	proteger la salud y el bienestar mediante tecnologías digitales	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Ser capaz de evitar riesgos para la salud y amenazas para el bienestar físico y psicológico mediante el uso de tecnologías digitales. Ser capaz de protegerse a sí mismo y a otras personas frente a posibles peligros en el entorno digital (por ejemplo, el ciberacoso). Conocer las tecnologías digitales para el bienestar social y la inclusión social.

					social well-being and social inclusion.	
Protecting devices	http://data.europa.eu/es-co/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT proteger dispositivos de Tic	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Proteger los dispositivos y el contenido digital, y comprender los riesgos y las amenazas en entornos digitales. Conocer las medidas de seguridad y protección y tener debida consideración de la fiabilidad y la privacidad. Utilizar herramientas y métodos que permitan maximizar la seguridad de los dispositivos y la información de las TIC mediante el control del acceso, como contraseñas, firmas digitales, biometría y sistemas de protección como cortafuegos, antivirus y filtros antispam
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/es-co/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content	navegar, buscar y filtrar datos, información y contenido digitales	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Articular las necesidades de información, buscar datos, información y contenido en entornos digitales, acceder y navegar a través de ellos. Crear y actualizar estrategias personales de búsqueda.

3.25. Swedish

DigComp label	ESCO URI	ESCO label EN	Translated label	DigComp descriptor	ESCO description	Translated description
Solving technical problems	http://data.europa.eu/esco/skill/14832d87-2f2f-4895-b290-e4760ebae42a	solve technical problems	lösa tekniska problem	To identify technical problems when operating devices and using digital environments, and to solve them (from trouble-shooting to solving more complex problems).	Identify technical problems when operating devices and using digital environments, and solve them (from trouble-shooting to solving more complex problems).	Identifiera tekniska problem som rör användning av enheter och digitala miljöer och lösa dessa (från felsökning till att lösa mer komplexa problem).
Engaging in citizenship through digital technologies	http://data.europa.eu/esco/skill/16a00c69-9c74-4c37-96d7-6301d285e5ce	engage in citizenship through digital technologies	delta aktivt i samhällslivet genom digital teknik	To participate in society through the use of public and private digital services. To seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Participate in society through the use of public and private digital services. Seek opportunities for self-empowerment and for participatory citizenship through appropriate digital technologies.	Delta i samhällslivet genom att använda offentliga och privata digitala tjänster. Söka möjligheter till ett inflytelserikt och deltagande medborgarskap genom lämplig digital teknik.
Creatively using digital technologies	http://data.europa.eu/esco/skill/1a4cc54f-1e53-442b-a6d2-1682dc8ef8f9	creatively use digital technologies	använda digital teknik på ett kreativt sätt	To use digital tools and technologies to create knowledge and to innovate processes and products. To engage individually and collectively in cognitive processing to understand and resolve conceptual problems and	Use digital tools and technologies to create knowledge and to innovate processes and products. Engage individually and collectively in cognitive	Använda digitala verktyg och digital teknik för att skapa kunskap och innovera processer och produkter. Medverka både individuellt och kollektivt i kognitiv bearbetning för att förstå och

				problem situations in digital environments.	processing to understand and resolve conceptual problems and problem situations in digital environments.	lösa konceptuella problem och felsituationer i digitala miljöer.
Evaluating data, information and digital content	http://data.europa.eu/esco/skill/1d6c7de4-350e-4868-a47b-333b4b0d9650	evaluate data, information and digital content	bedöma data, information och digitalt innehåll	To analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. To analyse, interpret and critically evaluate the data, information and digital content.	Analyse, compare and critically evaluate the credibility and reliability of sources of data, information and digital content. Analyse, interpret and critically evaluate the data, information and digital content.	Analysera, jämföra och kritiskt utvärdera trovärdigheten och tillförlitligheten hos källor till data, information och digitalt innehåll. Analysera, tolka och kritiskt utvärdera data, information och digitalt innehåll.
Programming	http://data.europa.eu/esco/skill/21d2f96d-35f7-4e3f-9745-c533d2dd6e97	computer programming	datorprogrammering	To plan and develop a sequence of understandable instructions for a computing system to solve a given problem or perform a specific task.	The techniques and principles of software development, such as analysis, algorithms, coding, testing and compiling of programming paradigms (e.g. object oriented programming, functional programming) and of programming languages.	Teknik och principer för utveckling av programvara, såsom analys, algoritmer, kodning, testning och sammanställning av programmeringsparadigm (som objektorienterad programmering, funktionell programmering) och programmeringsspråk.
Identifying digital competence gaps	http://data.europa.eu/esco/skill/238343b1-7b51-42b3-a9ed-	identify digital competence gaps	identifiera brister i digital kompetens	To understand where one's own digital competence needs to be improved or updated. To be able to support others with their digital competence development. To seek	Understand where one's own digital competence needs to be improved or updated. Be able to support others with their	Förstå var den egna digitala kompetensen behöver förbättras eller utökas. Kunna stödja andra med deras digitala kompetensutveckling. Söka möjligheter till

	cf24d3a236e7			opportunities for self-development and to keep up-to-date with the digital evolution.	digital competence development. Seek opportunities for self-development and keep up-to-date with the digital evolution.	självutveckling och hålla jämna steg med den digitala utvecklingen.
Collaborating through digital technologies	http://data.europa.eu/esco/skill/2b34a99f-9813-4c91-9509-b6b9b8c3132e	collaborate through digital technologies	samarbeta genom digital teknik	To use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Use digital tools and technologies for collaborative processes, and for co-construction and co-creation of resources and knowledge.	Använda digitala verktyg och digital teknik för samarbetsprocesser och för sambyggande och gemensamt skapande av resurser och kunskap.
Protecting personal data and privacy	http://data.europa.eu/esco/skill/33a82b83-c838-4889-ae62-fae1317481eb	protect personal data and privacy	skydda personliga uppgifter och privatlivet	To protect personal data and privacy in digital environments. To understand how to use and share personally identifiable information while being able to protect oneself and others from damages. To understand that digital services use a "Privacy policy" to inform how personal data is used.	Protect personal data and privacy in digital environments. Understand how to use and share personally identifiable information while being able to protect oneself and others from damages. Understand that digital services use a "Privacy policy" to inform how personal data is used.	Skydda personuppgifter och privatlivet i digitala miljöer. Förstå hur man använder och sprider personlig identifierbar information, samtidigt som man skyddar sig själv och andra. Förstå att digitala tjänster använder sig av en "integritetspolicy" för att informera om hur personuppgifter används.
Sharing through digital technologies	http://data.europa.eu/esco/skill/40001d93-8937-4859-89d5-	share through digital technologies	dela data, information och digitalt innehåll genom digital teknik	To share data, information and digital content with others through appropriate digital technologies. To act as an intermediary, to know about referencing and attribution practices.	Share data, information and digital content with others through appropriate digital technologies. Act as an	Dela data, information och digitalt innehåll med andra genom lämplig digital teknik. Agera förmedlare, känna till

	2dca53290ff4				intermediary, know about referencing and attribution practices.	hänvisnings- och tilldelningsmetoder.
Identifying needs and technological responses	http://data.europa.eu/esco/skill/42fcf80d-7b45-40f3-bd2f-5411c4c0dfa0	identify needs and technological responses	identifiera behov och tekniska lösningar	To assess needs and to identify, evaluate, select and use digital tools and possible technological responses to solve them. To adjust and customise digital environments to personal needs (e.g. accessibility).	Assess needs and identify, evaluate, select and use digital tools and possible technological responses to solve them. Adjust and customise digital environments to personal needs (e.g. accessibility).	Bedöma behov och identifiera, utvärdera, välja ut och använda digitala verktyg och möjliga tekniska lösningar för att tillgodose dem. Justera och anpassa digitala miljöer till personliga behov (t.ex. tillgänglighet).
Managing data, information and digital content	http://data.europa.eu/esco/skill/4d97e3c3-f335-47cc-a4ee-0d779fd42222	manage data, information and digital content	hantera data, information och digitalt innehåll	To organise, store and retrieve data, information and content in digital environments. To organise and process them in a structured environment.	Organise, store and retrieve data, information and content in digital environments. Organise and process them in a structured environment.	Organisera, lagra och hämta data, information och innehåll i digitala miljöer. Organisera och behandla dem i en strukturerad miljö.
Integrating and re-elaborating digital content	http://data.europa.eu/esco/skill/5af49836-2269-46d9-87b9-0d3140c6c22e	integrate and re-elaborate digital content	integrera och omarbeta digitalt innehåll	To modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and relevant content and knowledge.	Modify, refine, improve and integrate information and content into an existing body of knowledge to create new, original and	Modifiera, förfinas och förbättra information och innehåll samt integrera dem i en befintlig kunskapssamling för att skapa nytt, originellt och relevant innehåll och nya kunskaper.

					relevant content and knowledge.	
Developing digital content	http://data.europa.eu/es-co/skill/5fd5c985-eaaa-47aa-8314-62359c54505a	develop digital content	utveckla digitalt innehåll	To create and edit digital content in different formats, to express oneself through digital means.	Create and edit digital content in different formats, express oneself through digital means.	Skapa och redigera digitalt innehåll i olika format, uttrycka sig genom digitala medier.
Netiquette	http://data.europa.eu/es-co/skill/97c1895a-a890-47da-abfc-79dc272add2e	use online conventions of netiquette	följa nätetikett	To be aware of behavioural norms and know-how while using digital technologies and interacting in digital environments. To adapt communication strategies to the specific audience and to be aware of cultural and generational diversity in digital environments.	Apply behavioural norms and know-how while using digital technologies and interacting in digital environments. Adapt communication strategies to the specific audience and be aware of cultural and generational diversity in digital environments.	Tillämpa beteenderegler och know-how med hjälp av digital teknik och interagera i digitala miljöer. Anpassa kommunikationsstrategier till den specifika publiken och vara medveten om kulturell och generationsmässig mångfald i digitala miljöer.
Interacting through digital technologies	http://data.europa.eu/es-co/skill/a12057b4-6d11-4a12-ab8e-15a028ef0a6d	interact through digital technologies	interagera genom digital teknik	To interact through a variety of digital technologies and to understand appropriate digital communication means for a given context.	Interact through a variety of digital technologies and understand appropriate digital communication means for a given context.	Interagera med hjälp av olika digitala tekniker och förstå vilka digitala kommunikationsmedel som är lämpade i ett visst sammanhang.
Copyright and licences	http://data.europa.eu/es-co/skill/a91732ce-988e-	copyright and licences related to digital content	upphovsrätt och licenser för digitalt innehåll	To understand how copyright and licences apply to data, information and digital content.	Understand how copyright and licences apply to data,	Förstå hur upphovsrätt och licenser gäller för data, information och digitalt innehåll.

	4105-9570-f425c6ffdc82				information and digital content.	
Managing digital identity	http://data.europa.eu/esco/skill/bc0b0b5d-f6be-405a-b224-b6902a4dbe97	manage digital identity	hantera digital identitet	To create and manage one or multiple digital identities, to be able to protect one's own reputation, to deal with the data that one produces through several digital tools, environments and services.	Create and manage one or multiple digital identities, be able to protect one's own reputation, deal with the data that one produces through several digital tools, environments and services.	Skapa och hantera en eller flera digitala identiteter, kunna skydda ditt eget anseende, hantera uppgifter som skapas genom flera digitala verktyg, miljöer och tjänster.
Protecting the environment	http://data.europa.eu/esco/skill/c4ba12d1-4698-42fa-8abb-789462ea2586	protect the environment from the impact of the digital technologies	skydda miljön från påverkan av digital teknik	To be aware of the environmental impact of digital technologies and their use.	Be aware of the environmental impact of digital technologies and their use.	Vara medveten om den digitala teknikens konsekvenser för miljön och dess användning.
Protecting health and well-being	http://data.europa.eu/esco/skill/d1ed5b3a-cab5-4c5d-baf8-0214998b58fb	protect health and well-being while using digital technologies	använda digital teknik utan risk för hälsa och välbefinnande	To be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. To be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). To be aware of digital technologies for social well-being and social inclusion.	Be able to avoid health-risks and threats to physical and psychological well-being while using digital technologies. Be able to protect oneself and others from possible dangers in digital environments (e.g. cyber bullying). Be aware of digital technologies for	Kunna undvika hälsorisker och hot mot fysiskt och psykiskt välbefinnande med hjälp av digital teknik. Kunna skydda sig själv och andra från möjliga faror i digitala miljöer (t.ex. nätmobbning). Vara medveten om digital teknik för socialt välbefinnande och social integration.

					social well-being and social inclusion.		
Protecting devices	http://data.europa.eu/esco/skill/df329d70-87b0-466b-a214-3431f36e2a5e	protect devices	ICT	skydda IKT-utrustning	To protect devices and digital content, and to understand risks and threats in digital environments. To know about safety and security measures and to have due regard to reliability and privacy.	Protect devices and digital content, and understand risks and threats in digital environments. Know about safety and security measures and have due regard to reliability and privacy. Make use of tools and methods which maximise security of ICT devices and information by controlling access, such as passwords, digital signatures, biometry, and protecting systems such as firewall, antivirus, spam filters.	Skydda produkter och digitalt innehåll samt förstå risker och hot i digitala miljöer. Känna till säkerhets- och trygghetsåtgärder och ta vederbörlig hänsyn till tillförlitlighet och personlig integritet. Använda verktyg och metoder som maximerar säkerheten hos IKT-utrustning och information genom att kontrollera åtkomsten, till exempel i form av lösenord, digitala signaturer, biometri och skyddssystem som brandväggar, antivirussystem, skräppostfilter.
Browsing, searching and filtering data, information and digital content	http://data.europa.eu/esco/skill/e439742d-558d-4f52-885e-afdc740b48cf	browse, search and filter data, information and digital content		läsa, söka och filtrera data, information och digitalt innehåll	To articulate information needs, to search for data, information and content in digital environments, to access them and to navigate between them. To create and update personal search strategies.	Articulate information needs, search for data, information and content in digital environments, access them and navigate between them. Create and update personal search strategies.	Formulera informationsbehov, söka efter data, information och innehåll i digitala miljöer, få åtkomst till dem och navigera mellan dem. Skapa och uppdatera personliga sökstrategier.

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Information about the European Union in all the official languages of the EU is available on the Europa website at: https://europa.eu/european-union/index_en

EU publications

You can download or order free and priced EU publications at: <https://op.europa.eu/en/publications>. Multiple copies of free publications may be obtained by contacting Europe Direct or your local information centre (see https://europa.eu/european-union/contact_en).

EU law and related documents

For access to legal information from the EU, including all EU law since 1952 in all the official language versions, go to EUR-Lex at: <http://eur-lex.europa.eu>

Open data from the EU

The EU Open Data Portal (<http://data.europa.eu/euodp/en>) provides access to datasets from the EU. Data can be downloaded and reused for free, for both commercial and non-commercial purposes.

