#ASKnet

Access to Skills and Knowledge network

OPEN LEARNING GUIDE

THIRD EDITION

#ASKnet - Access to Skills & Knowledge network

#ASKnet is a cross-border consortium of community driven organisations with an aim to build a transformative and sustainable open society and a professional media skills ecosystem. The network provides access to a range of open source knowledge and information, media and IT related training as well as community oriented hands-on skills. The members of #ASKnet address local community challenges, support empowerment with knowledge and skills, inspire regional innovation and creativity, and engage peacebuilding and community empowerment among all members of society.
https://asknet.community/

#ASKnet is supported by rOg_agency for open culture and critical transformation (Berlin, Germany) and Hive Colab (Kampala, Uganda) as implementing partners. The project in the period of 2022-2025 is funded by means of the German Federal Ministry for Economic Cooperation and Development (BMZ).

icebauhaus supports an open dialogue between civil society, private sector and the academic world, and creates programmes aimed at bringing artists and creative individuals together, along with advancing the use and availability of digital and social media in development via educational events and technical support. icebauhaus also encourages the concept of social entrepreneurship with the help of knowledge transfer and pilot projects in our partner countries, and cooperates with major players from the field of international collaboration. **https://icebauhaus.com**

rOg_agency for open culture and critical transformation focuses on practice and projects embedded in communities, and is dedicated to partnering with local grassroots organizations to support open knowledge, open technology, and peacebuilding efforts. Enabling access to information, countering online incitement to violence and creating media literacy oriented open educational resources (OER) rOg_agency's network brings together arts, culture, open development and civil society.
https://openculture.agency

The **Open Learning Guide (#OLG)** is an outcome of "Step Up Juba Media Lab" collaboration with Kapital Movie (2016) and the subsequent jHUB community (2017) in Juba, South Sudan, produced with the initiating project partners icebauhaus and rOg_agency for open culture and critical transformation in Berlin. This third edition (2024), featuring new open resources is revised and updated from the "Let's Go jHUB" project.

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OPEN HARDWARE + ELECTRONICS

AFRIMAKERS
https://afrimakers.org
Empowers makers in Africa to develop sustainable projects using prototyping to solve local challenges.

#ASKotec KIT
https://askotec.openculture.agency
'Access to Skills and Knowledge Open Tech Emergency Case' is a resource kit for community trainers, designed as a light and handy mobile workshop creation set.

#ASKtraining REPAIR CAFE MODULE
https://training.asknet.community/modules/communityrepair
Provides hands on experience on how to help your community repair broken devices and exchange knowledge. How to organise the event and run it professionally.

#ASKtraining #ROSHOP
https://training.asknet.community/modules/ROSHOP
Responsive Open Source Modular Housing Prototype (#ROSHOP) is a media and digital culture informed housing prototype for unstable environments.

APPROPEDIA SUSTAINABILITY WIKI
https://appropedia.org/Welcome_to_Appropedia
Sharing knowledge and experience to build rich, sustainable lives.

BRAILLERAP
https://www.braillerap.org/en/index.html
BrailleRap is an open source Braille embosser, originally derived from 3D printers. Emboss text in any language on media including paper, card, PCB, aluminium, into Braille vector graphics.

CRITICAL MAKING
https://criticalmaking.eu
Framework used by SalvageGarden in the practice of co-creating assistive devices, to contribute to an open society via open source innovation.

DOODLE 3D
https://doodle3d.com
Free, open-source web app that turns 2D drawings into 3D objects.

OPEN HARDWARE CANVAS
https://github.com/ohwmakers/ohcanvas
Clarify your hardware project and think strategically about project goals, plans, and the resources you'll need.

FABLAB - WHAT IS IT?
https://en.wikipedia.org/wiki/Fab_lab
A fab lab (fabrication laboratory) is a small-scale workshop offering digital fabrication.

HOW TO START A FABLAB
https://fabfoundation.org/getting-started
Spaces for community engagement, creativity, entrepreneurship and invention.

IFIXIT
https://www.ifixit.com
The free repair guide for everything, written by everyone.

INSTRUCTABLES
https://instructables.com
Share what you make with the world, and tap into an ever-growing community of creative experts. Participate in make-a-thons and add your own instructables.

MAKER ACADEMY
https://tolocar.org/en/academy
3D Design, Scanning, Printing - Learner Modules related to the use of fab labs.

MAKERS MAKING CHANGE
https://www.makersmakingchange.com/s/resources
Assistive technology helps people with disabilities live, work, and play with more independence.

OPEN! METHODS & TOOLS FOR COMMUNITY-BASED PRODUCT DEVELOPMENT
https://opensourcedesign.net
Current practices of open source product development and guidance to support design process efficiency of open source product development projects.

OPEN SOURCE ECOLOGY
https://opensourceecology.org
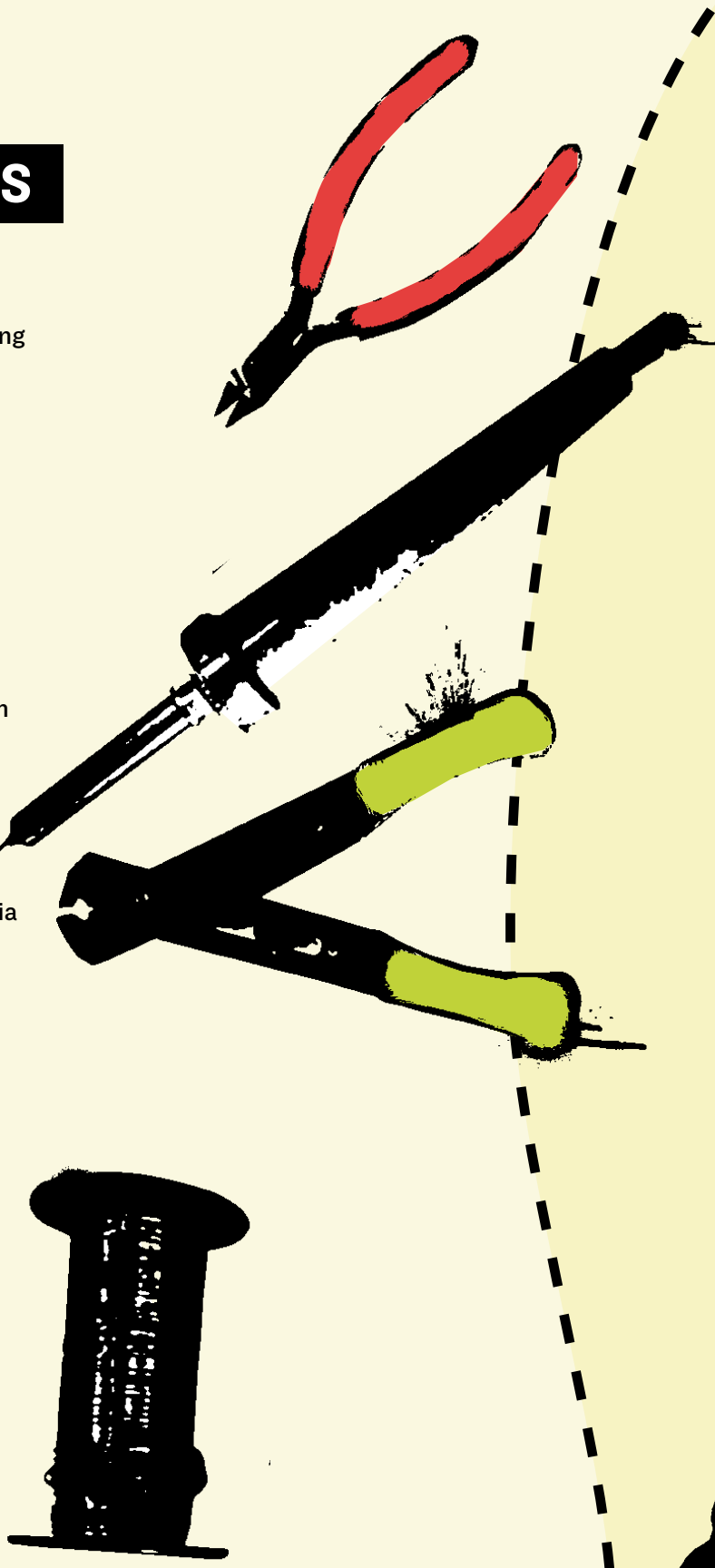Open source industrial machines that can be made for a fraction of commercial costs, designs shared online for free.

OPEN SOURCE HARDWARE ASSOCIATION
https://oshwa.org
Open hardware community ensuring technological knowledge is accessible to everyone.

PAPER-DUINO
https://paperpcb.dernulleffekt.de/doku.php?id=arduino_clones:arduino_clones_main
A compilation of Arduino clones CC-BY-SA 4.0 Int. by Wolfgang Spahn

SALVAGE GARDEN
https://salvage.garden/what-we-do
Community Makerspace Singapore focused on Assistive Tech and openSourced hardware.

WIKIFAB
https://wikifab.org
Explore, Make, Share. Open source hardware documentation platform.

WIKI-HOW
https://wikihow.com
"We're trying to help everyone on the planet learn how to do anything. Join us."

DIGITAL SECURITY

SURVEILLANCE SELF-DEFENSE
https://ssd.eff.org
Tools and tips for Safer Online Communication by the Electronic Frontier Foundation.

ENCRYPTED EMAIL SERVICES
Tutanota: https://tuta.com/ ProtonMail: https://proton.me/mail
Email Services with end-to-end encryption.

MAILVELOPE
https://mailvelope.com/en
A browser add-on that allows you to encrypt and decrypt emails and files directly in your browser.

SECURE OS
TailOS: https://tails.net/index.en.html   Qubes OS: https://www.qubes-os.org
Portable operating system that protects against surveillance and censorship.

GHOSTERY
https://www.ghostery.com
A privacy tool suite designed to enhance online security and reduce unwanted tracking.

SAFE SISTERS GUIDE
https://safesisters.org/resources/#2300
The guide helps women to live and be online safely. Learn about problems women face on the internet and make informed decisions to protect ourselves, make the internet a safe space for women!

VERACRYPT
https://www.veracrypt.fr/en/Home.html
A free open source disk encryption software for Windows, Mac OSX and Linux.

WEB CHECK
https://web-check.xyz
All-in-one OSINT tool for analysing any website.

FACT CHECKING

DEEPWARE
https://deepware.ai
Scan a suspicious video to find out if it's synthetically manipulated.

FAKE IMAGE DETECTOR
https://www.fakeimagedetector.com
A tool for detecting manipulated images using advanced techniques.

AI or NOT
https://www.aiornot.com
An AI Detection of AI-generated images & audio.

IMGOPS
https://imgops.com
ImgOps is a versatile online image processing platform that provides a range of functionalities for image manipulation, search, and conversion.

2IICHECK SOUTH SUDAN
https://2IIcheck.org
A fact-checking and information verification platform that works on countering misinformation and disinformation by #defyhatenow SouthSudan.

237CHECK CAMEROON
https://237check.org
This is a fact-checking and information verification platform that works on countering misinformation and disinformation by #defyhatenow Cameroon.

MULTIFACTCHECK ETHIOPIA
https://multifactcheck.org
MultiFactCheck (MFC) is an independent fact-checking platform that investigates claims carrying content of mis/disinformation. Supported by #defyhatenow Ethiopia 2024/2025.

ARTIFICIAL INTELLIGENCE (AI)

AI DISINFORMATION DETECTION GUIDE
https://democracyreporting.s3.eu-central-1.amazonaws.com/images/6528fb3c06eb8.pdf
Synthetic Media Exposed: A Comprehensive Guide to AI Disinformation Detection

AI GENERATED CONTENT: SUPERCHARGED BY AI
https://theglassroom.org/supercharged-by-ai
How can we stay informed and aware about this rapidly-changing technology?

GPT4ALL
https://www.nomic.ai/gpt4all
Run Large Language Models Locally (offline and on CPUs / GPUs).
Built with privacy and security first.

OLLAMA
https://ollama.com
An open-source project that enables users to run large language models (LLMs) locally.

OPEN WEBUI
https://github.com/open-webui , https://openwebui.com
Open WebUI is a self-hosted AI interface designed to operate entirely offline.

HUGGING FACE
https://huggingface.co
Hugging Face is an open-source artificial intelligence (AI) community platform.

WE ARE AI
https://dataresponsibly.github.io/we-are-ai
A 5 week learning circle on the basics and ethical dimensions of AI in modern life.

WE ARE AI COMIC SERIES
https://dataresponsibly.github.io/we-are-ai/comics

GLOSSARY

AI - Artificial Intelligence refers to sophisticated computer programs that "learn" from data in order to make decisions. Many AI systems are invisible to the public, yet the results of the decisions they make have a huge impact on modern life.

Android - is a robot designed to act and look like a human, and is now commonly known as a Linux-based open source mobile operating systems (OS), developed by Google for smart phones.

Blended Learning - is a form of teaching and learning where the student learns at least part of the content and instruction via digital and online media with some element of student control over time, place, path, or pace (the Step-Up Juba Media Lab / iceHubs Global eLEARNING platform is intended to encourage both Blended Learning, promoting OERs and the development of P2P for learning).

Code-a-thon (or Hackathon) - Computer programmers and developers, visual and user experience designers collaborate intensively to build innovative software.

DIY - Do It Yourself

DIWO - Do It With Others

ICT - Information and Communications Technologies

Maker - refers to growing global maker culture movement, an extension of DIY (Do-It-Yourself) culture interested in creation and innovation of built objects that have a technological component. This can include home made robots, flying machines (such as South Sudanese inventor George Mel's airplane), traditional activities in arts and crafts which focus on using and learning practical skills and applying them to design and invention.

MOOC - Massive Open Online Courses offered by major universities for free study, aimed at unlimited participation and open access via the web.

OER - Open Educational Resources, which are are freely accessible, openly licensed documents and media that are useful for teaching, learning, or for research purposes.

P2P - Peer to Peer ... a network that distributes tasks between peers (either similar computers, team members or colleagues). Peers are equal participants in an application or work pursuit. Graphically they form a decentralised 'peer-to-peer' network of nodes, as opposed to a centralised system. P2P can also be considered a model of collaborative learning, sharing and passing on of knowledge among like minded participants.

RFID - Radio-frequency identification (RFID) is the wireless use of electromagnetic fields to transfer data, automatically identifying and tracking tags attached to objects.

Up-Cycling - Also known as 'creative reuse', the process of transforming by-products, waste materials, useless and/or unwanted products into new materials or products of better quality or for better environmental value.

UX - User Experience refers to practical, experiential, and meaningful aspects of human–computer interaction. A 'good' UX indicates a technology that works well and is useful for the people it is intended to serve.

Wiki - a website or database developed collaboratively by a community of users, allowing any user to add, edit, revise and delete content.

Wikipedia - Collaborative global open encyclopaedia and knowledge resource.

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OPEN KNOWLEDGE GUIDES

Open Knowledge is free to use, reuse, and redistribute without legal, social or technological restriction. Open knowledge is a set of principles and methodologies related to the production and distribution of how knowledge works in an open manner. Knowledge is interpreted broadly to include data, content and general information. https://openculture.agency/open-educational-resources

OPEN LEARNING GUIDE (#OLG)
The #OLG is an introduction to publicly available and free to use shareable knowledge, including Open Educational Resources (OER) along with a range of free and open information platforms, focussing on media and online literacy, technology, peace innovation and DIY communities. Initially devised by a community of young South Sudanese, the #OLG, arranged thematically, highlights a small cross-section of open resources that can be used by people anywhere. It's just the tip of the iceberg in a vast and growing world of free, open and public knowledge resources!

OPEN LEARNING INTRODUCTION PEER2PEER (P2P) & ICT LITERACY

#ASKtraining PLATFORM
https://training.asknet.community/modules/asktraining_overview
Browse modules, assemble your training sequence, and easily adjust settings. Learn to navigate modules, resources, and filters effortlessly, empowering yourself to craft dynamic and engaging training sessions.

OPEN EDUCATIONAL RESOURCES (OER)
https://training.asknet.community/modules/OER-basic-intro
Webinar on the importance and tools for Open Educational Resources (OERs). Learn about the concepts, benefits and challenges of creating and sharing OERs.

DEVELOP YOUR OWN OER MODULES
https://training.asknet.community/modules/OER-dev
Planning and organising OERs and example templates.

MIGRANT MEDIA NETWORK
https://migrantmedia.network
#MMN provides young Africans with reliable information and training on migration issues and social media to make informed decisions and be aware of safer migration options to Europe.

PEERAGOGY HANDBOOK
https://peeragogy.org
Peeragogy is another word for "peer learning". A range of techniques for self-motivated learners to connect with each other and develop stronger communities and collaborations.

PEER-TO-PEER UNIVERSITY (P2PU)
https://p2pu.org
A university for the web. Built by an open community.

WIKIPEDIA
https://wikipedia.org
Collaborative global open encyclopaedia and free knowledge resource.
South Sudan: https://en.wikipedia.org/wiki/South_Sudan

MOZILLA PROJECTS + EXPERIMENTS
https://future.mozilla.org/projects
Creating a more personal, private and open-source internet, to support the future of an open web.

OPEN SOURCE EDUCATION
https://opensource.com/education/13/4/guide-open-source-education
A guide to free and open source education. Stories about creating and sharing open source solutions.

eLEARNING RESOURCES

ALISON ONLINE TRAINING
https://alison.com
Free, high-quality online education resources to help you develop essential, certified workplace skills.

EDX
https://edx.org
Access to free education for everyone. Harvard University, MIT & submit your own courses!

ELEARNING AFRICA
https://elearning-africa.com
Perspectives on ICT, Education and Development in Africa.

KHAN ACADEMY
https://khanacademy.org https://youtube.com/c/khanacademy
"You can learn anything." Global Classroom offers a free world class education for anyone, anywhere.

CRASH COURSE
https://youtube.com/user/crashcourse/playlists
youtube channel with courses in short episodes.

SCHOOL OF LIFE
https://youtube.com/user/schooloflifechannel
Essays, philosophy, short video series.

CODING AND PROGRAMMING

#ASKnet GITHUB GUIDE
https://training.asknet.community/modules/documents_on_github
The #ASKnet Github Guide gives you a jumpstart on using Github: Create repositories, share your projects and knowledge with others and grow your learning along with your community.

CODE ACADEMY
https://codecademy.com
Learn to code, interactively. For free.

DATA DETOX KIT
https://tacticaltech.org/projects/data-detox-kit
Guides to discuss, how you can take control of your privacy, security, and wellbeing.

DATA DETOX X YOUTH
https://datadetoxkit.org/en/families/datadetox-x-youth
Activity book to help young people take control of their tech with simple activities for reflection.

FUTURE LEARN
https://futurelearn.com/courses/collections/make-it-digital
British MOOC initiative, related to Open University. Media-topics, digital storytelling. Learn to code and get creative with programming and digital technology.

RAILS GIRLS
https://railsgirls.com/materials
Tools and a community for women to understand technology and build their ideas.

PEACE + INNOVATION

#DEFYHATENOW
https://defyhatenow.org
#defyhatenow provides community-based and data-driven solutions to the problem of hate speech, disinformation and countering online incitement to violence.

PEACETECH TOOLS
https://peacerep.org/peacetech-tools
PeaceTech innovation tools focus on data to support analysis of peace and transition processes and implementationn and include search peace data, visualise trends, maps and PeaceFem mobile app.

DIGITAL PEACEBUILDING SUPPORTED BY AI
Watch Video: https://youtu.be/2wOvNbIOKYE?si=7damtbxLszAL_vh9
Social media analysis made by and for peacebuilders. Machine learning and AI tools support digital peacebuilding app Phoenix to work ethically with social media data to inform programming.

PHOENIX
https://howtobuildup.org/programs/digital-conflict/phoenix
Phoenix is an open source, non-commercial platform designed to enable peacebuilders and mediators to conduct ethical and participatory social media listening in order to inform conflict transformation work.

TECHNOLOGY IN PEACEBUILDING
Interview with Caleb Gichuhi, Africa Lead at How to Build Up.
https://peacerep.org/2024/04/18/technology-in-peacebuilding-interview-with-caleb-gichuhi-africa-lead-at-how-to-build-up

CONCILIATION RESOURCES
https://www.c-r.org/learning-hub
We share lessons from peace processes and use past experience to adapt to the changing realities of conflict and global politics as we shape solutions for the future.

PEACETECH LAB
https://www.peacetechlab.org/hate-speech-lexicons
Lexicons identify and explain inflammatory language on social media, offering alternative words and phrases that can be used to combat hate speech.

ICT4PEACE
https://ict4peace.org
ICT4Peace facilitates communication between communities involved in conflict prevention, mediation and peace building, through better understanding Information Communications Technology (ICT) & media.

PEACEHACKCAMP
https://peacehackcamp.net
Bringing together peacebuilders, tech innovators and open culture advocates from across South Sudan and beyond to hack, code, make and collaborate for peace!

TOLOCAR MOBILE MAKERSPACE FOR PEACE
https://tolocar.org/en
The Tolocar project uses mobile makerspaces equipped with tools, open source hardware machines and consumables to support humanitarian activities in Ukraine.

OPEN LANGUAGE RESOURCES

DUOLINGO
https://duolingo.com
Learn a language for free, for ever. Learn anytime, anywhere.

OPEN CULTURE
FREE LANGUAGE LESSONS
https://www.openculture.com/freelanguagelessons

OPEN UNIVERSITY
FREE LANGUAGE COURSES
https://www.open.edu/openlearn/languages/free-courses

VIDEO + SOUND EDITION + 3D ANIMATION

AUTODESK
https://autodesk.com/education/free-software/3ds-max
3D modelling, animation, rendering, and compositing tool for games, film & motion graphics artists.

AUDACITY
ahttps://udacityteam.org
Audio editing and recording. Free, open source, software for podcasts, voice-overs.

BLENDER
https://blender.org
Free and open source tools to create, transform and edit your visual effects and models.

DESCRIPT
https://www.descript.com
Edit audio and video and publish them. Transcribe, add captions to create video, podcasts and webinars.

LOOM VIDEO
https://www.loom.com
Free screen recorder to create webinars and video content.

PIXAR IN A BOX
https://khanacademy.org/partner-content/pixar/start
Khan Academy collaboration with Pixar on animation.

TINKERCAD
https://www.tinkercad.com
An excellent, intuitive, free and simple CAD tool for 3D Design, electronics & coding.

VIDEO & FILMMAKER – TUTORIALS
https://videoandfilmmaker.com
VFX, 3D Landscaping, Microphone and Sound Mixing, DIY Filmmakers Toolkit.

aVLC MEDIA PLAYER
https://videolan.org/vlc
Free, open source flexible media player, runs on virtually any operating system.

BUSINESS & SOCIAL INNOVATION TOOLS

BUSINESS MODEL CANVAS FOR SOCIAL ENTERPRISE
https://bmtoolbox.net/tools/social-business-model-canvas
Social Innovation Lab tool helps to design Business Models to focus on the social impact.

BUSINESS MODEL CANVAS
https://www.strategyzer.com/library/the-business-model-canvas
The canvas offers 9 building blocks to quickly design an overview of your business model.

GIG GLOBAL INNOVATION GATHERING
https://globalinnovationgathering.org
A vibrant, diverse and growing community of innovation hubs, makerspaces, hackerspaces and grassroots innovation communities around the world.

LIBREOFFICE
https://libreoffice.org
Free & Open Source Office suite.

OPEN SOURCE ALTERNATIVES FOR ALMOST EVERYTHING
https://osalt.com
Find the best open source software alternatives to commercial software.

OPENOFFICE, OPENOFFICE IMPRESS 3.0
https://openoffice.org
Open Source word, spreadsheet and drawing office suite.

DIGITAL STORYTELLING PLATFORMS

AFRICAN DIGITAL HERITAGE
https://africandigitalheritage.org/category/resources
Resources and cultural heritage toolkit for practitioners working at community level.

AFRICAN STORYBOOK
https://www.africanstorybook.org
Open access to picture storybooks in the languages of Africa. For children's literacy, enjoyment and imagination. Create a new picture storybook, translate a story, adapt a story for a different reading level.

JAYLIT
Journal of African Youth Literature
https://www.jaylit.com/c/news/spotlight

MIT OPEN DOCUMENTARY LAB
https://docubase.mit.edu
An interactive curated database transforming documentary in the digital age.

MAKE A FILM ON YOUR SMARTPHONE
https://www.docfilmacademy.com/blog/6-steps-to-getting-cinematic-footage-on-your-smartphone
Guide on How to Film Cinematic Videos with Your Smartphone

SOUND AFRICA
https://www.soundafrica.org
A platform for quality independent podcast documentaries from the African continent.

#ASKNET TOOLS AND RESOURCES

The #ASKnet and related members curate and share Open Learning Guides, toolkits, and resources from their work so that others can adopt, adapt and deploy them in their own communities to promote local innovation and peer-to-peer knowledge exchange.
https://asknet.community

#ASKtraining
The #ASKtraining platform has been developed to help compile, share and streamline the running of all forms of community oriented workshop and peer to peer learning content.
https://training.asknet.community

#ASKotec
#ASKotec is the 'Access to Skills and Knowledge open tech emergency case', a multi-purpose resource, repair and training kit created for mobile field-use where there is no or limited access to electricity and internet connectivity.
https://askotec.openculture.agency