Web Sustainability Guidelines

Summary Table & Checklist

2.1	Undertake Systemic Impacts Mapping					
	Success Criterion					
		nal variables affecting g where your produc				
	Impact & Effort	Med	ium	Med	lium	
	GRI	Medium	Medium	Medium	Medium	
2.2	Assess and Resear	ch Visitor Needs				
	Success Criterion					
	quantitative or qual	dary target visitors ar itative research, test n a close part of the	ing, or analytics, ens	suring your visitors a		
		nstraints like the devi ted for when designi			ser, and connection	
		arched and identified version of the produ				
	Barriers to access (user-research with	pain points or dark /visitors for removal.	deceptive design pa	atterns) have been ic	lentified in the	
		luding your visitors hen undertaking rese				
	Impact & Effort	Med	ium	Hi	gh	
	GRI	Medium	Medium	Medium	Medium	
2.3	Research Non-Visit	or's Needs				
	Success Criterion					
	passively impacted	s been established fo by a digital product ies, etc. Research th	or service, such as i	neighbors accepting	parcels, traffic	
	Impact & Effort	Med	ium	Med	lium	
	GRI	Medium	Medium	Medium	Medium	
2.4	Consider Sustainab	ility in Early Ideation				
	Success Criterion					
		pid prototyping are u urces needed to buil		ild consensus, reduc	e risk, and lower	

	Users are involved within the iteration and design process using participatory design, and when conducting user-testing reach out to your community to help improve your product by allowing them to apply their knowledge and experience to your product or service.				
	Impact & Effort	Low		Lc)W
	GRI	Low	Low	Low	Low
2.5	Account for Stakeh	older Issues			
	Success Criterion				
	All stakeholders have brainstorming process		using a human-cent	ered approach durin	g the
	the brainstorming p		undaries of a project lude creating non-us es and sprints.		
	Impact & Effort	Med	lium	Med	lium
	GRI	Medium	Medium	Medium	Medium
2.6	Create a Lightweigh	nt Experience by Def	fault		
	Success Criterion				
	efficient and as sim	ple as possible (time	ne initial contact with e required to comple nat's required at the	te an action displaye	ed, reducing too
			ccessed website or s Iding on established		
	Visitors can comple	ete tasks without dis	tractions or non-esse	ential features gettin	g in the way.
	Visitors see only inf being displayed on		vant to their experier	nce, without non-ess	sential information
	Ensure that actiona visitor.	ble information such	n as pop-up or moda	ıl windows can only	be initiated by the
	Impact & Effort	Med	lium	Med	lium
	GRI	Medium	Medium	Medium	Medium
2.7	Avoid Unnecessary	or an Overabundan	ce of Assets		
	Success Criterion				
	Decorative design is used only when it improves the user-experience, and unnecessary assets or ones that fail to benefit the visitor or sustainability are removed (or rendered optional and disabled by default).				
	Impact & Effort	Hi	gh	Med	lium
	GRI	High	High	High	High
2.8	Ensure Navigation a	and Way-Finding Are	e Well-Structured		
	Success Criterion				

	Provide an accessible, easy-to-use navigation menu with search features that help visitors easily find what they need.					
		ent (human-readable es better index webs				
	Implement a way fo	or visitors to find out	about new content a	and services.		
	Impact & Effort	Lo)W	Lo)W	
	GRI	Medium	Low	Medium	Low	
2.9	Respect the Visitor	s Attention				
	Success Criterion					
	The visitor can easi and respect with th	ly control how (and versitor.	when) they receive in	formation to both im	nprove attention	
		distract people or un nave a higher priority		n the time they spen	d using the	
	Avoid using infinite	scroll or related atte	ntion-keeping tactics	S.		
	Impact & Effort	Med	lium	Lo)W	
	GRI	Medium	Medium	Medium	Medium	
2.10	Use Recognized Design Patterns					
	Success Criterion					
		tial components visik eploy visual styles (p				
	Impact & Effort	Med	lium	Lo	ow .	
	GRI	Medium	Low	Medium	Low	
2.11	Avoid Manipulative	Patterns				
	Success Criterion					
	techniques, which r	nmonly known as da manipulate visitors ir , requiring an accour	nto taking actions no			
		d sponsorships are b nting them when the experience.				
	Remove unused an	d unconsented page	e tracking.			
	Optimization for search engines, social networks, and third-party services are organically led with good coding practices with user-experience the focus, not manipulating the services to gain greater priority through obfuscating content, pages, websites, or applications with redundancy or non-useful and optimized (to the visitor) material.					
	Impact & Effort	Hi	gh	Med	lium	
	GRI	Low	Low	Low	Low	

	Success Criterion					
		tput, including docu bw it to be reused in		upstream of the pro	ject and produced	
		and technical speci the project team and		ented so that deliver development team.	ables are	
	the burden to acces		ntain, and utilize prod	Source affordances duction-ready code a		
	Impact & Effort	Med	lium	Hiş	gh	
	GRI	Medium	Medium	Medium	Medium	
2.13	Use a Design Syste	m To Prioritize Interf	ace Consistency			
	Success Criterion					
	• .	employed based on ts and provide a co		recognizable patterr for visitors.	ns to mutualize	
	Impact & Effort	Lo	w	Med	lium	
	GRI	Medium	Low	Medium	Low	
2.14	Write With Purpose, in an Accessible, Easy To Understand Format					
	Success Criterion					
	Content is written clearly, using plain, inclusive language delivered at an easy-to-understand reading level considering accessibility and internationalization inclusions as required (for example, dyslexia).					
		d to support how pe adings, bulleted lists		cluding a clear docur o on.	nent structure,	
	SEO has been prior lifecycle to improve		design stages and t	hroughout a product	or service's	
	Impact & Effort	Lo	W	Lo	w	
	GRI	Medium	Low	Medium	Low	
2.15	Take a More Sustai	nable Approach to Ir	nage Assets	,		
	Success Criterion					
	The need for image implementation.	s has been determin	ed considering the o	quantity, format, and	size necessary for	
	Resize, optimize, and compress each image (outside the browser), offering different sizes (for each image) for different screen resolutions.					
	Provide Lazy Loadi	ng to ensure image a	assets only load whe	en they are required.		
	Let the visitor selec	t the display size, ar	d provide the option	n to deactivate image	es.	
		nagement and use p sion and file formats.		overall impact of imag	ges, with criteria	
	Impact & Effort	Hi	gh	Lo	w	

	GRI	High	High	High	High		
2.16	Take a More Sustai	nable Approach to N	Media Assets				
	Success Criterion						
	The need for video or sound (when it adds visitor value, for example, to enhance accessibility) has been determined, and non-informative media (background media), including autoplaying functionality, has been banned or removed.						
	Compress the media according to the visitor's requirements, select the appropriate format, ensure it works across browsers, and avoid embedded player plugins.						
	Any media requiring a lot of data to be downloaded on the client side (including the media itself) has been loaded behind a facade (a non-functional, static, representational element).						
	Let the visitor control media deactivation, giving a choice of resolutions; all while providing alternative resolutions and formats. Also increase visitor awareness by informing them of the length, format, and weight of the media.						
	Set up a media management and use policy to reduce the overall impact of audio and video, with criteria for media compression and file formats.						
	Impact & Effort	mpact & Effort High Medium					
	GRI	High	High	High	High		
2.17	Take a More Sustai	nable Approach to A	nimation				
	Success Criterion						
	Use animation only when it adds value to a visitor's experience, and not for decorative elements.						
	Progressively displadiminish expected	ay an appropriate qu device behavior.	antity of animation s	so as not to overburd	den the visitor or		
	Allow visitors to sta	ert, stop, pause, or o	therwise control anir	nated content.			
	Impact & Effort	Med	lium	Lo	ow .		
	GRI	High	High	High	High		
2.18	Take a More Sustai	nable Approach to T	ypefaces				
	Success Criterion						
	Use standard syste	m-level (web-safe /	pre-installed) fonts a	s much as possible.			
		s, and the variants wing the most perform	• • • • • • • • • • • • • • • • • • • •	•	racters) are limited		
	Impact & Effort	Med	lium	Lo	ow .		
	GRI	Medium	Medium	Medium	Medium		
2.19	Provide Suitable Al	ternatives to Web As	ssets				
	Success Criterion						
	All proprietary file for availability.	ormats (such as PDF	are offered in HTM	L for accessibility ar	nd to ensure future		
	All custom typeface system font as a ba	es (using font-display ackup.	y) are subsetted and	offered as part of a	font stack with a		

	All images provide meaningful alternative text for screen reader users (or when images fail to load) accessibility.					
	Audio provides text	transcripts of conve	ersations as an alterr	native to playing the	media.	
	•	transcripts (at minined captions and sign	, ,	g WebVTT), and for a	accessibility best	
	Impact & Effort	Med	lium	Med	lium	
	GRI	Medium	Medium	Medium	Medium	
2.20	Provide Accessible	, Usable, Minimal We	eb Forms			
	Success Criterion					
	Remove unnecessary forms and reduce form content to the bare minimum necessary to meet the visitor's needs and the organization's business goals. Clearly communicate why a form is necessary, what its value proposition is, how many steps it will take to complete, and what an organization will do with collected data (informed consent).					
				elpful (to conserve ba f helpful tooling such		
	Impact & Effort	Lo	ow	Lo	ow	
	GRI	Medium	Low	Medium	Low	
2.21	Support Non-Graphic Ways To Interact With Content					
	Success Criterion					
	Support speech broalternatives to a vis		n-graphical ways to	interact with content	that provide	
	Impact & Effort	Lo	ow	Med	lium	
	GRI	Medium	Low	Medium	Low	
2.22	Provide Useful Noti	fications To Improve	the Visitor's Journey	/		
	Success Criterion					
		is strictly necessary.		icing the practice of (such as alerts for n		
		nces, and the option		browser, SMS, or by out, and close an acc	•	
			nput through helpful nelp manage their ex	prompts and messa pectations.	ges that explain	
	Impact & Effort	Lo)W	Lo	ow .	
	GRI	Medium	Low	Medium	Low	
2.23	Reduce the Impact	of Downloadable or	Physical Documents	5		
	Success Criterion					

	If the production of paper documents is essential, it should be designed to limit its impact to the lowest possible. Create a CSS Print stylesheet and test it with different types of content. Ensure PDF printing is encouraged over paper-based storage.					
	Provide all downloa accessible file formation		a state of being opt	imized, compressed	, and in a variety of	
		ely to be re-used, ge main) rather than for		t once on the server- duplicated.	-side (preferably	
	choice if possible of Furthermore, be sur	f both the format, an	d the language (if nongether the document with	e, and the format, alloot the same as the within Web pages (prov	eb page).	
	Impact & Effort	Med	lium	Lo	W	
	GRI	Medium	Low	Medium	Low	
2.24	Create a Stakeholde	er-Focused Testing &	& Prototyping Policy			
	Success Criterion					
	and user-interface of	components when apding people with slow	oplicable with real us	e and test new featur sers who represent v lisabilities, with diffic	arious stakeholder	
	The organization haviability.	s appropriately reso	urced these process	ses to support its lon	g-term product	
	The organization ha	s training materials t	to onboard new prod	duct team members	to these practices.	
		gularly conducts exter re meeting both busi		ser interviews to vali or needs.	date whether the	
	Impact & Effort	Hig	gh	Med	ium	
	GRI	High	High	High	High	
2.25	Conduct Regular A	udits, Regression, ar	nd Non-Regression 1	Tests		
	Success Criterion					
	accessibility or secu		been accounted for	ues hav been identifi at either monthly or o		
	Non-regression test	s are implemented f	or all important func	tionality.		
	Regression testing has been incorporated into each release cycle to ensure that new features don't introduce bugs or otherwise conflict with existing software functionality.					
	Impact & Effort	Med	lium	Med	ium	
	GRI	Medium	Medium	Medium	Medium	
2.26	Incorporate Perform	nance Testing Into Ea	ach Major Release-C	Cycle		
	Success Criterion					

	The performance of a website or application, to identify and resolve bottlenecks or issues in the underlying code or infrastructure which could ultimately impact the sustainability of a website or application, are regularly measured with each release-cycle (using tooling or through research and auditing).						
	ensure strict adhere	to provide a streamli ence, and comply wit rotection Regulation	th relevant accessibi	ility policies and priv	•		
	Impact & Effort	Med	ium	Lo	ow		
	GRI	Medium	Medium Medium Medium Medium				
2.27	Incorporate Value T	esting Into Each Maj	or Release-Cycle				
	Success Criterion						
		doption, and churn ra ed into future release		f product or service	features and their		
	Impact & Effort	Med	ium	Lo	ow .		
	GRI	Medium	Medium	Medium	Medium		
2.28	Incorporate Usabilit	ty Testing Into Each I	Minor Release-Cycle	9			
	Success Criterion						
	Usability testing has routinely measured	s been incorporated for future releases.	into product cycles	and the impact of th	ese tests is		
	Impact & Effort Medium Medium						
	GRI	Medium	Medium	Medium	Medium		
2.29	Incorporate Compa	atibility Testing Into E	ach Release-Cycle				
	Success Criterion						
	A compatibility policy with obsolete devices and software versions, listing the supported devices brands, operating systems, and browsers (including versions) has been established.						
	brands, operating s	systems, and browse	rs (including version	s) has been establis			
	Planned obsolescer for as long as possi	systems, and browse nce in software upda ible and clearly comr gnificantly reduce pe	ates is routinely avoid	ded, striving to main an update is evolution	hed. tain compatibility onary (large		
	Planned obsolesce for as long as possi updates that can si improve security). The product or serv	nce in software upda ible and clearly comr	ates is routinely avoid municating whether erformance) or correct ith weak, unstable, a	ded, striving to main an update is evolution ctive (smaller update	tain compatibility onary (large es that fix bugs or		
	Planned obsolescer for as long as possi updates that can si improve security). The product or servand devices older to be producted and the devices of the	nce in software upda ible and clearly comr gnificantly reduce pe vice regularly tests w	ates is routinely avoid municating whether a erformance) or correct ith weak, unstable, a ure compatibility ponsive design) are	ded, striving to main an update is evolution ctive (smaller update and slow connection utilized and interface	tain compatibility onary (large es that fix bugs or s, old browsers,		
	Planned obsolesces for as long as possi updates that can si improve security). The product or servand devices older to ensure progressi A PWA has been either to ensure progressi	nce in software updatible and clearly comrignificantly reduce period regularly tests whan five years to ensinethods (such as res	ates is routinely avoid municating whether erformance) or correct ith weak, unstable, a ure compatibility ponsive design) are ntent prioritization, a ed based on whether	ded, striving to main an update is evolution ctive (smaller update and slow connection utilized and interface and improved access	tain compatibility onary (large es that fix bugs or s, old browsers, es are prototyped sibility.		
	Planned obsolesces for as long as possi updates that can si improve security). The product or servand devices older to ensure progressi A PWA has been either to ensure progressi	nce in software updatible and clearly comrignificantly reduce period regularly tests whan five years to ensinethods (such as resident ve enhancement, conther chosen or reject	ates is routinely avoid municating whether erformance) or correct ith weak, unstable, a ure compatibility ponsive design) are ntent prioritization, a red based on whether tion.	ded, striving to main an update is evolution ctive (smaller update and slow connection utilized and interface and improved access	tain compatibility onary (large es that fix bugs or s, old browsers, es are prototyped sibility.		
	Planned obsolesces for as long as possi updates that can si improve security). The product or servand devices older to ensure progressi A PWA has been eicompatible over a recompatible over a recompatible over a recompa	nce in software updatible and clearly common gnificantly reduce per vice regularly tests whan five years to ensure the chosen or reject that it is not to be applicative mobile application.	ates is routinely avoid municating whether erformance) or correct ith weak, unstable, a ure compatibility ponsive design) are ntent prioritization, a red based on whether tion.	ded, striving to main an update is evolution at the connection and slow connection utilized and interface and improved access or it be more sustaination	tain compatibility onary (large es that fix bugs or s, old browsers, es are prototyped sibility.		
3.1	Planned obsolesce for as long as possi updates that can si improve security). The product or servand devices older to Device-adaptable into ensure progressi. A PWA has been eicompatible over a relimpact & Effort	nce in software updatible and clearly comregnificantly reduce pervice regularly tests whan five years to ensure thods (such as respectative mobile application). High	ates is routinely avoid municating whether erformance) or correct ith weak, unstable, a ure compatibility ponsive design) are natent prioritization, a red based on whether tion.	ded, striving to main an update is evolution at the connection and slow connection utilized and interface and improved access or it be more sustainated.	tain compatibility onary (large es that fix bugs or s, old browsers, es are prototyped sibility.		

	Explicit goals that impact the environment and performance of the service, for example, HTTP requests, or the amount of DOM elements that need to be rendered are both set and met.					
	Because the payload being delivered may not always be equal in terms of energy intensity, operators of websites and applications must ensure that consideration is given for the energy intensity (or unit being evaluated) of each component. For example, non-rendering text is less computational than CSS, which in turn is less process-heavy than JavaScript, which is less resource-heavy than WebGL.					
	Impact & Effort	Med	lium	Med	lium	
	GRI	Medium	Medium	Medium	Medium	
3.2	Minify Your HTML,	CSS, and JavaScript	t			
	Success Criterion					
	All source code is r	ninified upon compil	ation (including inline	e code).		
	Impact & Effort	Lo	DW	Lo	DW	
	GRI	Low	Low	Low	Low	
3.3	Use Code-Splitting	Within Projects				
	Success Criterion					
	Breakdown bandwidth-heavy components into segments that can be loaded as required.					
	Impact & Effort	Med	Medium Low			
	GRI	Medium	Medium	Medium	Medium	
3.4	Apply Tree Shaking	To Code				
	Success Criterion					
	Identify and elimina	te unused and dead	code within CSS an	nd JavaScript.		
	Impact & Effort	Med	lium	Med	lium	
	GRI	Medium	Medium	Medium	Medium	
3.5	Ensure Your Solution	ons Are Accessible				
	Success Criterion					
	Your website or application must conform to WCAG (at the necessary level), plus extend beyond to obey relevant laws and meet additional visitor accessibility requirements. Building inclusively means that people with permanent, temporary, or situational disabilities will be able to more quickly find what they are looking for, and not have to spend extra time searching for a way to use your product or service.					
				nternet Applications es when useful or be		
	Deploy solutions th	at fight against elect	ronic inequalities in	products and service	es.	
	Impact & Effort	Hi	gh	Med	lium	
	GRI	Medium	Medium	Medium	Medium	
3.6	Avoid Code Duplica	ation				

	Success Criterion				
		, ,	or performance) your duct (and codebase)	code to focus on es	sential features
				redeveloping and reduce visitor learning be	
		/aScript, use methode ement and output of		and systems like DR\	and WET to
	Impact & Effort	Med	lium	Med	lium
	GRI	Medium	Medium	Medium	Medium
3.7	Rigorously Assess	Third-Party Services			
	Success Criterion				
	as early in the ideat	ion or creation proce	ess as possible and	es, carousels, etc) ha as few of them are u acluding Scope 3 em	sed as possible to
	behind a click-to-lo		ng the "import on in	s, carousels, etc) sho teraction" pattern), w	
		and JavaScript fram		used if a more perfo	rmant alternative
	Self-hosted conten	t has been prioritized	d over embedded co	ontent from third-part	y services.
	Your own clickable icons and widgets have been created, rather than relying on third-party services to host or allow embedding within your product or service.				
	that cannot be cont provide benefits to creating the produc with cookies, webs	trolled or managed be a website, the need at or service but also ites or applications of ures (with explanatio	by the first-party proving to justify their inclusing be able to be controlled a similar	e often a source of source of a service. What ion must be made not be made by the consumer mechanism of disable unless such feature	nile many do ot only by those er. As showcased oling or refusing
	Impact & Effort	Hi	gh	Med	lium
	GRI	High	High	High	High
3.8	Optimize Use of HT	ML Elements			
	Success Criterion				
	Content must be ad	ccurately marked up	according to the rele	evant standard(s).	
	Remove optional HTML tags, attribute quotes, and default attributes only when they do not negatively impact functionality, accessibility, or readability. Retain them when they enhance accessibility, maintain clarity (without compromising on performance), or ensure consistent browser rendering.				
	Avoid using non-sta	andard elements or a	attributes.		
	Components if you		HTML elements or i	use custom elements if you need tightly re	

	Impact & Effort	Med	lium	Medium		
	GRI	Medium	Medium	Medium	Medium	
3.9	Resolve Render Blo	ocking Content				
	Success Criterion					
	All external assets I Content (FOUC).	nave been deferred o	or set to async (unles	ss required) to avoid	Flash Of Unstyled	
	If external resource	s are required on loa	d, their priorities (de	livery route) are set o	correctly.	
	Impact & Effort	Med	lium	Lo	w	
	GRI	Medium	Medium	Medium	Medium	
3.10	Provide Code-Base	ed Way-Finding Mecl	nanisms			
	Success Criterion					
	Metadata and micro	odata for search eng	ines and social med	ia have been optimiz	zed.	
	Search engines are	not obstructed, whi	le ill-intentioned robo	ots and scripts are b	locked.	
	Accessibility and usability aids are provided to find content, such as skip links and signposts.					
	Impact & Effort	Lo	w	Lo	w	
	GRI	Low	Low	Low	Low	
3.11	Validate Form Error	s and External Input				
	Success Criterion					
	Errors are identified	through live validati	on as well as upon s	submission.		
		are clearly identified assistants), and opti	•		s such as screen	
	Always allow the pa	asting of content (inc	luding passwords) fr	rom external sources	S.	
	Impact & Effort	Med	lium	Lo)W	
	GRI	Medium	Medium	Medium	Medium	
3.12	Use Metadata Corr	ectly				
	Success Criterion					
	Include the required	d title element, plus a	any optional HTML h	ead elements (such	as link).	
	Include necessary meta tag references that search engines and social networks recognize, using a recognized name scheme such as Dublin Core Metadata Initiative (DCMI), Friend Of A Friend (FOAF), or RDFa.					
	Embed Microdata,	Structured Data (Sch	nema), or Microforma	ats within your pages	S.	
	Impact & Effort	Med	lium	Lo	w	
	GRI	Medium	Medium	Medium	Medium	
3.13	Adapt to User Prefe	erences				

	Success Criterion					
	Apply the monochrome, prefers-contrast, prefers-color-scheme, prefers-reduced-data, prefers-reduced-transparency, and prefers-reduced-motion CSS preference queries if they will benefit your website or application. Use the print & scripting CSS media queries if they will improve the sustainability of your website.					
	Impact & Effort	Med	dium	Lo	DW .	
	GRI	Medium	Medium	Medium	Medium	
3.14	Develop a Device-A	Adaptable Layout				
	Success Criterion					
	Allow a website or app to work and adapt seamlessly across a variety of devices and screen sizes, including mobile, desktop, smart TVs, and other emerging platforms. Ensures that content and functionality are accessible and optimized on both smaller mobile screens and larger displays without limiting accessibility, usability or design on any specific device type. It is essential to implement robust fallback strategies to ensure that the website or application will not fail if it encounters unsupported technologies.					
	Regardless of the approach or combination of approaches used, such as Adaptive Design, Mobile-First Design, or Dynamic Serving, it's essential to ensure overall sustainability through progressive enhancement					
	To maximize the use of renewable energy, adapt your website or service to electricity availability using carbon-aware design techniques. This should include using situational design to reduce the codebase disable non-essential functionality during high-intensity periods or adapting the user-interface to perform better in situations where scaling hardware resources can be avoided to reduce emissions. It can also include designing algorithms that can auto-disable features based on set thresholds.					
				(speech), code (QR, atch, appliance, trans		
	Impact & Effort	Med	dium	Lo	ow .	
	GRI	Medium	Low	Medium	Low	
3.15	Use Beneficial Java	Script and Its APIs				
	Success Criterion					
	Improve sustainabi	lity through accessib	le and performant c	ode implementations	S.	
	When using an API unrequired data is s		call it when necess	ary. On the other sid	e, make sure no	
	Impact & Effort	Hi	gh	Med	lium	
	GRI	High	High	High	High	
3.16	Ensure Your Scripts	s Are Secure				
	Success Criterion					
	Check the code for	vulnerabilities, explo	oits, header issues, a	and code injection.		
	Impact & Effort	Med	dium	Med	lium	
	GRI	Medium	Medium	Medium	Medium	

3.17	Manage Dependencies Appropriately					
	Success Criterion					
	when they are not r		for unused depende	ript libraries to run lo ncies and uninstallin		
	downloaded and pa	arsed by the browse package size, and w	r. Consider whether	nount of JavaScript you can use a native odules can be installe	JavaScript API	
	Regularly check de	pendencies and kee	p them up-to-date.			
	Impact & Effort	Med	lium	Lo	W	
	GRI	Low	Low	Low	Low	
3.18	Include Expected a	nd Beneficial Files				
	Success Criterion					
		nally, ensure that an		omanifest, and sitem in future web standa		
				txt, security.txt. Addi ications are included		
	Impact & Effort	Lo	ow	Lo	w	
	GRI	Low	Low	Low	Low	
3.19	Avoid Using Depred	cated or Proprietary	Code			
	Success Criterion					
	·		ards, the only except o provide a functiona	tion being if consume	er support	
	Don't use an older seffectively.	standard if a newer r	ecommendation will	do the same job as	/ or more	
	Impact & Effort	Lo	ow	Med	ium	
	GRI	Low	Low	Low	Low	
3.20	Align Technical Rec	uirements With Sus	tainability Goals			
	Success Criterion					
	Identify the requirements and from this, choose the implementation of the product or service. A simpler technological implementation may use more human resources but could have a smaller footprint. A prebuilt solution may use more system resources (and thereby produce more emissions upon render) but have a faster build-time (emitting less carbon during development).					
	simpler technologic footprint. A prebuilt	al implementation m solution may use m	nay use more human ore system resource	resources but could s (and thereby produ	l have a smaller uce more	

	If choosing a code generation tool, use a Static Site Generator in preference to a bulky content management system. Because SSGs often start using a minimalist content entry format (like markdown) and all of the compilation is done before the website is uploaded, the emissions benefit comes from the server not having to place as much effort into serving pages (as they are static) for each visitor. In the case of a CMS, the dynamic nature of a site will involve additional computation (server-side processing) and bulkier libraries.								
	_	essibility, and perfor	_	ed and selected to n gularly audited over t					
				special attention in te performance of such					
	Impact & Effort	Med	lium	Med	lium				
	GRI	Medium	Medium	Medium	Medium				
3.21	Use the Latest Stab	le Language Versior	1						
	Success Criterion								
	Use the latest build	of your chosen synt	ax language and its	coupled framework.					
	languages are opting the problem, espec	nized for performing ially if there is a reas	particular tasks, and onable visitor base i	. Many tools and productilizing those mos nvolved justifies the g of those involved o	t appropriate to time and effort, as				
	Impact & Effort	Med	lium	Med	lium				
	GRI	Medium	Medium	Medium	Medium				
	Take Advantage of Native Features								
3.22	Take Advantage of	Native Features		Success Criterion					
3.22	-	Native Features							
3.22	Success Criterion	Native Features s, APIs, and features	s over writing your o	wn.					
3.22	Success Criterion			wn. Lo	ow.				
3.22	Success Criterion Use native functions	s, APIs, and features			ow Medium				
3.22	Success Criterion Use native functions Impact & Effort GRI	s, APIs, and features Med	lium Medium	Lo					
	Success Criterion Use native functions Impact & Effort GRI	s, APIs, and features Med Medium	lium Medium	Lo					
	Success Criterion Use native functions Impact & Effort GRI Run Fewer, Simpler Success Criterion If you need informat requested) more that	Medium Medium Queries As Possible tion that is stored in an once in your code cessing. Also, avoid	Medium Medium a database, and you a, access the databa	Lo	Medium ely to be core the data locally				
	Success Criterion Use native functions Impact & Effort GRI Run Fewer, Simpler Success Criterion If you need informat requested) more that for subsequent products	Medium Medium Queries As Possible tion that is stored in an once in your code cessing. Also, avoid	Medium Medium a database, and you a, access the databa reliance on framewo	Medium u require it (or it's like use only once, and st	Medium ely to be core the data locally t defer filtering to				
	Success Criterion Use native functions Impact & Effort GRI Run Fewer, Simpler Success Criterion If you need informat requested) more that for subsequent process later on in the process	Medium Medium Queries As Possible tion that is stored in an once in your code cessing. Also, avoid ess.	Medium Medium a database, and you a, access the databa reliance on framewo	Medium u require it (or it's like use only once, and stork helpers that migh	Medium ely to be core the data locally t defer filtering to				
	Success Criterion Use native functions Impact & Effort GRI Run Fewer, Simpler Success Criterion If you need informat requested) more that for subsequent proclater on in the process Impact & Effort GRI	Medium Queries As Possible tion that is stored in an once in your code cessing. Also, avoid ess. Medium	Medium Medium a database, and you a, access the database reliance on framewo	Medium u require it (or it's like use only once, and stork helpers that migh	Medium ely to be ore the data locally t defer filtering to				

	To assess the environmental impacts of hosting and detect overconsumption, some indicators are monitored: energy / water usage, CPU / Memory usage, allocation of servers and CPU cores, etc. These indicators are be used to calculate metrics directly related to environmental impacts, such as Power Usage Effectiveness (PUE), Water Usage Effectiveness (WUE), and Carbon Usage Effectiveness (CUE). They are displayed to visitors for transparency and monitoring reasons. If possible (to reduce redundancy) the ability to scale packages based on usage requirements is made available (manually or automatically) to reduce wasted resources.					
		ged responsibly by kure it is certified, and		possible, using it as espan products.	efficiently as	
	Waste (including eq	uipment) is recovere	ed, recycled, and upo	cycled.		
	by wind or solar rat	her than from non-re	newable sources). F	ible carbon intensity for example, Renewa tricity comes directly	able Energy Credits	
	reduce them and or sustainable, therefore environmentally via	nly compensate for the the effectiveness	hem if they cannot be of an offset solution and part of a longer	at the priority should be avoided. Carbon of must be verified, should term strategy to elin	redits may not be own to be both	
	Impact & Effort	Hiç	gh	Med	ium	
	GRI	Low	Low	Low	Low	
4.2	Optimize Browser C	Caching				
	Success Criterion					
	Otherwise, use the expiration using export Varnish. If using a static pages so that required static asse	provided server controllers or cache-controllers or cache-controllers or frameward they can be reused	figuration files to inc ol, utilizing tooling w work that generates for future visitors. A where possible to re	ole on-the-fly server- lude and tweak the f here appropriate suc pages on request, ca lso remember to cac duce repeat server re logies.	ile-type cache th as Memcached, ache responses for the frequently	
	Programming Interf example, through the	aces (APIs), or cookine use of a PWA (Pro	les (if necessary) to sogressive Web Applic	rs, WebWorkers, stor streamline the user-jo cation) to ensure that and improve accessil	ourney. For an offline version	
	Impact & Effort	Hiç	gh	Hiç	gh	
	GRI	Medium	High	Medium	High	
4.3	Compress Your File	s				
	Success Criterion					
	Brotli or GZIP. Othe		ded server configura	-fly server-side comp tion files to include a		
				reducing the quality a server or content		
	Impact & Effort	Hiç	gh	Lo	W	

	GRI	Low	Low	Low	Low			
4.4	Use Error Pages an	d Redirects Carefull	У					
	Success Criterion							
	Maintain sites by ensuring links are correct, and if errors occur, provide suitable way-finding within optimized pages for each error type to ensure resources can be identified to help visitors complete the task they started.							
	Redirect websites, subdomains, and pages only when necessary. Proactively seek broken or outdated links and fix them. A redirect or search will often help reduce the number of pages a visitor needs to load.							
	Impact & Effort	Lo	ow	Lo	ow			
	GRI	Low	Low	Low	Low			
4.5	Limit Usage of Add	itional Environments						
	Success Criterion							
		environment is availa it online while unuse		ost of deploying an e	environment with			
	Impact & Effort	Med	lium	Lo	ow			
	GRI	Low	Low	Low	Low			
4.6	Automate To Fit the	Needs						
	Success Criterion							
		k, such as deployme ontinuous integratio		lation, is run automa ery best practices.	tically, as			
	To reduce wasted p	processing cycles, ev	very automated task	is only run when nee	eded.			
		infrastructure is used ttling is implemented		crease the capacity or demand.	of the web server			
	concern for security bad actors and min logs, less data, less large increase in HT	y, performance, and imize bad behavior. seffect due to comp TP, email, and other rate data. Comprom	sustainability. Use so This results in substa romise, and more. To traffic as malicious	ent years. As such, in ecurity tools that autonatically less load on the result of compronations to inferiorally identified by a such that are the such that is	omatically block the server, fewer nised websites is a iltrate other			
	Impact & Effort	Hi	gh	Med	lium			
	GRI	Low	Low	Low	Low			
4.7	Maintain a Relevant	t Refresh Frequency						
	Success Criterion							
	The frequency for redepending on visitor		ache, locally stored o	data, and the page) i	s defined			
	Impact & Effort	Med	lium	Lo)W			
	GRI	Medium	Medium	Medium	Medium			

4.8	Be Mindful of Duplicate Data					
	Success Criterion					
	Backups of system	and user data are b	oth incremental and	secure.		
	Impact & Effort	Lo)W	Lo)W	
	GRI	Low	Low	Low	Low	
4.9	Enable Asynchrono	us Processing and C	Communication			
	Success Criterion					
		ical processes and c under a given thresh		batched and launch	ed only when	
	using insecure prot for visitors (HTTPS,	n protocols used are ocols (HTTP, FTP), a SSH). Modern prot keeping backward-o	nd prioritize more ef ocols such as HTTP	ficient and privacy-a /2 should be used to	ware data routes	
	refresh), if the utilization	ducts or services that ation of Event-Driver andly (based on the F ad of your solution, u	Architecture and MPPP variables involve	icroservices will be r	nore	
	Impact & Effort	Med	lium	Med	lium	
	GRI	Low	Low	Low	Low	
4.10	Consider CDNs and	d Edge Caching				
	Success Criterion					
	pre-generated reso	globally distributed urces in a fast and e lso another layer of i	fficient manner. Altho	ough they definitely	can increase	
	Verify that the CDN	provides a commitn	nent to sustainability	' .		
		was chosen with sernce, the need for disterned worthwhile.				
	Don't use the service to host dynamic / regularly changing resources or JavaScript (unless through a first-party host) as due to cache partitioning, cross-origin resource sharing (CORS), and other browser mechanics, any benefits are negated by weaker performance, the inability to cache or interact, and the potential introduction of security and privacy issues to be introduced. This doesn't affect JSON or other static assets.					
	All information passed between the layers of an application incurs a cost, both in terms of data transferred, and CPU cycles for (de)serialization. Wherever possible, data transformations must be performed close to the source to reduce these costs and avoid processing data that will later be discarded.					
	Impact & Effort	Med	lium	Lo	ow	
	GRI	Low	Medium	Low	Medium	
4.11	Use the Lowest Infr	astructure Tier Meet	ing Business Requir	rements		
	Success Criterion					

	Select infrastructure elements with the lowest requirements tier, meeting your service-level agreements. Avoid over-provisioning multi-datacenter, multi-zone, or distributed deployments if standalone instances meet the requirements. Also avoid provisioning infrastructure that will be under-utilized by provisioning for established average loads, ensuring reasonable resource utilization and autoscaling occurs as needed. Avoid provisioning for peak loads.					
	Impact & Effort	Med	ium	Med	lium	
	GRI	Low	Low	Low	Low	
4.12	Store Data According	ng to Visitor Needs				
	Success Criterion					
	Remove unnecessa abandoned.	ry and redundant da	ita from your servers	s, whether it is single	-use (dark data) or	
	Create data with an up old data needs t	•	cess data is a form o	of technical debt, and	d routinely cleaning	
	Use a data classific	ation / tagging policy	y to make it easier to	o find, handle, and re	emove.	
	Store data only who	en it is difficult to rec	reate.			
		tion, storage (off-site al backup providers.), and rotation; sche	eduling during low-ac	ctivity hours and	
	Ensure long-term as	ssets, especially tho	se of a large size, are	e made available for	download.	
	Impact & Effort	Lo	W	Lo	w	
	GRI	Low Low Low				
				2011	LOW	
5.1	Have an Ethical and	d Sustainability Produ		LOW	LOW	
5.1	Have an Ethical and	d Sustainability Produ		2011	LOW	
5.1	Success Criterion The organization ha	s published a public	uct Strategy ly available Code of	Ethics, Product Guid	delines,	
5.1	Success Criterion The organization ha Sustainability, or PF policies, and program Achievements, feati	s published a public PP Statement that inc ams.	uct Strategy ly available Code of cludes language spend anything beyond to	Ethics, Product Guidecific to digital produ	delines, cts, services,	
5.1	Success Criterion The organization ha Sustainability, or PF policies, and progration Achievements, feating published within a servidence is provide	as published a publice PP Statement that incomes. Bures, compliance, and sustainability section	ly available Code of cludes language spend anything beyond to of your product or so	Ethics, Product Guidecific to digital product the scope of these generates.	delines, cts, services, uidelines are	
5.1	Success Criterion The organization ha Sustainability, or PF policies, and progration Achievements, feating published within a service is provided sustainability, climate Training decks and	as published a publice PP Statement that incomes. The sures, compliance, and sustainability section d by the organization te policies, and relater	ly available Code of cludes language spend anything beyond to fyour product or some showing how it effect PPP practices over the ded by the organization.	Ethics, Product Guidecific to digital product the scope of these gervice. Sectively governs imported time.	delines, cts, services, uidelines are llemented digital	
	Success Criterion The organization ha Sustainability, or PF policies, and progration Achievements, feating published within a second Evidence is provided sustainability, climate Training decks and members on how it Your methodology in the Succession of the Succes	as published a publice PP Statement that incomes. The sures, compliance, and sustainability section of the deposition of the policies, and relative workshops are provising lements more sures been documented.	ly available Code of cludes language spend anything beyond to of your product or send anything how it effect of PPP practices over ded by the organizal ustainable product stainable impact stainable product stainable stainable product stainable st	Ethics, Product Guidecific to digital product the scope of these gervice. Sectively governs imported time.	delines, cts, services, uidelines are elemented digital new team	
	Success Criterion The organization ha Sustainability, or PF policies, and progration Achievements, feating published within a second Evidence is provided sustainability, climate Training decks and members on how it Your methodology findividuals make members.	as published a publice PP Statement that incomes. The sures, compliance, and sustainability section of the decision of the policies, and relatively workshops are provict implements more sures been documented ore informed decision.	ly available Code of cludes language spend anything beyond to of your product or sended PPP practices over the design of the organization of the o	Ethics, Product Guidecific to digital product the scope of these green service.	delines, cts, services, uidelines are elemented digital new team tation, and helping visitors.	
	Success Criterion The organization ha Sustainability, or PF policies, and progration Achievements, feating published within a second Evidence is provided sustainability, climate Training decks and members on how it Your methodology findividuals make members.	as published a publice PP Statement that incomes. The sures, compliance, and sustainability section of the decision of the policies, and relatively workshops are provict implements more sures been documented ore informed decision.	ly available Code of cludes language spend anything beyond to of your product or so a showing how it effect PPP practices over the design of the organization of the o	Ethics, Product Guidecific to digital product the scope of these green service.	delines, cts, services, uidelines are elemented digital new team tation, and helping visitors.	
	Success Criterion The organization has Sustainability, or Propolicies, and progration Achievements, feat published within a second Evidence is provided sustainability, climate Training decks and members on how it Your methodology individuals make methodology individuals make methodology in the organization can be successful.	as published a public PP Statement that incomes. The statement that incomes are sustainability section and by the organization to policies, and relative workshops are provisimplements more sumas been documented ore informed decision and show how it powers.	ly available Code of cludes language spend anything beyond to of your product or so a showing how it effect PPP practices over the design of the organization of the o	Ethics, Product Guidecific to digital product the scope of these green gervice. The scope of these green green gervice. The scope of these green gre	delines, cts, services, uidelines are elemented digital new team tation, and helping visitors.	
	Success Criterion The organization has Sustainability, or Propolicies, and programation Achievements, feating published within a second sustainability, climate sustainabilit	as published a publice. PP Statement that incomes. Sures, compliance, and sustainability section and by the organization te policies, and relative workshops are provict implements more sureas been documented ore informed decision and show how it power High	ly available Code of cludes language spend anything beyond to of your product or so a showing how it effect PPP practices over the design of t	Ethics, Product Guidecific to digital product the scope of these green service. The scope of these green service. The scope of these green service. The scope of these green services import the service service import the services with your services with rendered services.	delines, cts, services, uidelines are elemented digital new team tation, and helping visitors. ewable energy.	

	An ecological referee (with specific digital expertise) for the product or service within your organization has been assigned and empowered with the tools they require (resources, budget, time, etc.) to achieve their stated goals.					
	Impact & Effort	Medium		Low		
	GRI	Medium	Medium	Medium	Medium	
5.3	Raise Awareness ar	nd Inform				
	Success Criterion					
	(managers and clier		out and trained in bo	es, and organizationa oth general and digita		
	sustainability. This	can be undertaken the or other ongoing or	nrough in-house train	evelop, establish, and ning, courses, works ds to empower your	hops, events,	
	and sustainable init		nd resources on sust	r environmental impa ainable design, best		
	Impact & Effort	Med	lium	Med	lium	
	GRI	Medium	Medium	Medium	Medium	
5.4	Communicate the E	Ecological Impact of	User Choices			
	Success Criterion					
		ications of visitor ch based on those choic		arly communicated a	and visitors can	
	Impact & Effort	Med	lium	Med	lium	
	GRI	Medium	Medium	Medium	Medium	
5.5	Estimate a Product	or Service's Environ	mental Impact			
	Success Criterion					
	A full life-cycle Anal conducted.	ysis based on the fu	ınctional unit defined	d in Guideline 5.15 ha	as been	
		mpact of your or a c l) has been calculate	•	service to inform de	cision-making (as a	
	(or estimates of) of solutions utilized in	any tooling used to the theory that the theory the theory the pipeline. While r	create the product o	or service, you must r service along with he emissions they go overall solution.	any third-party	
	Impact & Effort	Med	lium	Med	lium	
	GRI	Medium	Medium	Medium	Medium	
5.6	Define Clear Organi	zational Sustainabili	ty Goals and Metrics	S		
	Success Criterion					

	The organization has defined and published a clear set of sustainability goals. It publicly communicates how it will meet these goals, including which performance metrics are important to help the organization and its various stakeholders thrive.					
	Impact & Effort	Lc	ow	Medium		
	GRI	Low	Low	Low	Low	
5.7	Verify Your Efforts U	Jsing Established Th	ird-Party Business C	Certifications		
	Success Criterion					
	_	as achieved one or many and practices to su		nability certifications	and incorporated	
	The organization m	aintains its certificati	on through evolving	policies and practic	es over time.	
	Impact & Effort	Med	lium	Med	lium	
	GRI	Medium	Medium	Medium	Medium	
5.8	Implement Sustaina	ability Onboarding G	uidelines			
	Success Criterion					
	policies and practic		w to implement them	es, and materials that n. While managing and nd practices arise.		
	_	eir training, including		olders to make prog ity activities, recogni		
	The organization ar acts to minimize the		potential negative ex	xternal variables on t	he service, and	
	Impact & Effort	Hi	gh	Med	lium	
	GRI	High	High	High	High	
5.9	Support Mandatory	Disclosures and Re	porting			
	Success Criterion					
	environmental impa		services, policies, an	actices for disclosing nd programs in line w		
		oduces a publicly av and environmental go		t outlining its progre r year.	ss against previous	
	The organization publicly and transparently follows existing or emerging environmental standards and legislative policy that promotes mandatory disclosures and reporting for emissions. This is done alongside other human and environmental criteria in its impact reporting, maintaining these practices over time for future reports.					
		early identifies how i ashing, excluded da		mental impact, avoidative techniques.	ding double	
		14	lium	Med	J!	
	Impact & Effort	Med	iiuiii	IVICC	lium	
	Impact & Effort GRI	Medium	Medium	Medium	Medium	

	Success Criterion					
	The organization has completed (and operationalized) a Theory of Change process with requisite documentation to identify the impact it hopes to create, how it will generate revenue, shared, or added value from these activities, how it will measure results based on desired outcomes; or in the case of launched projects, is generating revenue, actively tracking and measuring progress against any desired outcomes.					
	Impact & Effort	Hiç	gh	Med	lium	
	GRI	High	High	High	High	
5.11	Follow a Product M	anagement and Mai	ntenance Strategy			
	Success Criterion					
	The organization ha maintenance.	s documented polic	ies outlining how it a	approaches product	management and	
	The organization ha it manages.	s maintenance / sec	curity plans in place	for all the digital proc	ducts and services	
	refactoring code, ac	ddressing technical of	debt, new product fe	e via staffing and bud eatures, ongoing test stomers, visitors, and	ing, and product	
		corporates carbon a ble improvement ove		ement into maintena	nce programs and	
		s both identified and ent non-acceptable s		Failure Indicators (KF s from occurring.	ls) and implements	
	Impact & Effort	Hiç	gh	Lo	w	
	GRI	High	High	High	High	
5.12	Implement Continue	ous Improvement Pr	ocedures			
	Success Criterion					
		s created policies ar		le continuous improv fforts over time.	vement and has	
				view process to ensu cal debt, and produc		
	while also addressing such as technical danalytics are limited	ng the by-products a ebt, product perform I to only necessary f	and potential consect nance, emissions, ar eatures to aid with c	to analyze your webs quences of ongoing end related issues is c decision-making, enc als and visitor needs	experimentation, learly visible. couraging visitor	
	elimination of unuse		unvisited pages thro	onality, and the deco ough the product's lif		
				r service lifecycle are evolutionary updates		
	techniques. These s		m (managers, collea	ed with appropriate gues, etc) build capa		

	Impact & Effort	High		High				
	GRI	High	High High High					
5.13	Document Future U	nent Future Updates and Evolutions						
	Success Criterion							
	Adding, updating, or removing features are considered where appropriate to the user-experience of the product or service.							
	Impact & Effort	Lo	ow	Lo	ow			
	GRI	Low	Low	Low	Low			
5.14	Establish if a Digita	Product or Service	Is Necessary					
	Success Criterion							
		vice identifies within a appropriate targets.		ment where it aligns	with one of the			
	The product or serviability factors.	rice has been determ	nined as necessary b	pased upon desirabil	ity, feasibility, and			
		product or service of stand the market for		An analysis has bee	n conducted if			
	Any obstacles to us have been overcom		vice, such as access	sibility, equality, tech	nical, or territorial			
	Impact & Effort	Hi	gh	Lo	DW			
	GRI	High	High	High	High			
5.15	Determine the Fund	ctional Unit						
	Success Criterion							
	A life-cycle Assessifunction throughout		conducted to define	e the requirements o	of your product's			
	Impact & Effort	Med	lium	Med	lium			
	GRI	Medium	Medium	Medium	Medium			
5.16	Create a Supplier S	tandards of Practice	•					
	Success Criterion							
	The organization ha	as created specific p	olicies to vet potenti	al partners in its sup	ply chain based on			
	The organization ha		opliers to create, trac	ck, and measure coll	ective impact on			
		as promoted its partr ship creates a collec		vavailable place, alo	ng with information			
	Impact & Effort	Hi	gh	Hi	gh			
	GRI	High	High	High	High			
5.17	Share Economic Be	enefits						

	Success Criterion					
	The organization is publicly committed to paying employees, contractors, and other stakeholders a living wage.					
	_	s policies and pract meet its impact goa	•	ntivize stakeholders,	such as workers	
				nce with its resource rofit sharing, and so		
		•	sible legislation that s d to sharing econom	supports employmer ic benefits.	nt rights,	
	Impact & Effort	Hi	gh	Hi	gh	
	GRI	High	High	High	High	
5.18	Share Decision-Mal	king Power With App	oropriate Stakeholde	ers		
	Success Criterion					
		anagers) have the po	-	ectives, and project s to make key decision	•	
	Impact & Effort	Lo	ow .	Hi	gh	
	GRI	Low	Low	Low	Low	
5.19	Use Justice, Equity,	Diversity, Inclusion	(JEDI) Practices			
	Success Criterion					
	prioritizes marginali	zed or otherwise un		oractices with clear pties, including Black, eniors, and so on.		
	_		olicy for digital produ on, product, or servic	icts and services and ce.	d can show this via	
	how this topic mani		products and service	nedules ongoing wor es (algorithmic bias,		
	The organization ca	ın show measurable	JEDI improvement o	over time in its hiring	, leadership, and	
		lvocates for respons oducts and services.		ng to JEDI practices	, especially as	
	Impact & Effort	Hi	gh	Hi	gh	
	GRI	High	High	High	High	
5.20	Promote Responsib	ole Data Practices				
	Success Criterion					
	such as the Genera and so on. This poli	I Data Protection Re cy must be accessil sion needs, and abid	egulation (GDPR), Ca ole for all visitors, inc	and supports existinulifornia Consumer Poluding those with accept practices to avo	rivacy Act (CCPA), ecessibility and	

	The organization can show measurable progress over time on how it respects data privacy and ownership, including a visitor's "right to be forgotten" and provides the ability to export data.						
	The organization supports new and emerging legislation related to data privacy, data sustainability, and responsible data practices.						
	Impact & Effort	Hi	gh	Med	lium		
	GRI	High	High High High High				
5.21	Implement Appropr	iate Data Manageme	ent Procedures				
	Success Criterion						
	expiration dates an		t audits. An archiving	e archived and deleto g schedule with a ligl			
	Users can control, i	manage, and delete	their data, subscript	ions, and accounts.			
	Impact & Effort	Lo	ow .	Hi	gh		
	GRI	Low	Low	Low	Low		
5.22	Promote and Imple	ment Responsible E	merging Technology	Practices			
	Success Criterion						
		hically sourced, scre		rging technologies, a I implemented in a n			
	The organization sh disrupt its business		workers as new tec	hnologies and practi	ces potentially		
		pports and complies gies (such as the EU		gislation related to a	utomation and		
	derive from the use chosen setting. Also waste or emissions	of emerging techno o note that this shou	logies they wish to e Ild include third-part the technology to cr	vironmental consider either promote or imp y choices, the "expe eate a desired result nt.	olement within a nse" (in terms of		
	Don't roll out post-on harvest now, decryp		for high-traffic servi	ces that don't need r	esilience against		
	Impact & Effort	Hi	gh	Med	lium		
	GRI	High	High	High	High		
5.23	Include Responsible	e Financial Policies					
	Success Criterion						
	_	as divested from foss responsible partners		ts banking, sponsors	ship, and other		
	_	ngages in flexible fina commodate long-terr		ble budgeting for its ance.	digital products		
	Impact & Effort	Hi	gh	Hi	gh		
	GRI	High	High	High	High		

5.24	Include Organizational Philanthropy Policies							
	Success Criterion							
	The organization has a clear corporate giving policy and creates philanthropic partnerships with strategically aligned organizations.							
	The organization engages in free or volunteer projects, which help its team learn new tools and tactics, while also helping charities and non-profit organizations build capacity.							
	Impact & Effort	High		Medium				
	GRI	High	High	High	High			
5.25	Plan for a Digital Product or Service's Care and End-of-Life							
	Success Criterion							
	Clear, documented end-of-life guidelines exist that include data disposal, archiving, file deletion, etc guidance.							
	Impact & Effort	Medium		Medium				
	GRI	Medium	Medium	Medium	Medium			
5.26	Include E-Waste, Right-To-Repair, and Recycling Policies							
	Success Criterion							
	The organization has specific policies in place to recycle e-waste and repair owned technology products whenever possible.							
	The organization has formed relationships with local partners for e-waste recycling and repair.							
	The organization buys refurbished equipment whenever possible.							
	The organization allows consumers to repair (to the best of their ability) the consumables they purchase, offering (if possible at cost) replacement components and provides clear instructions to resolve faults that occur.							
	Impact & Effort	High		Medium				
	GRI	High	High	High	High			
5.27	Define Performance and Environmental Budgets							
	Success Criterion							
	The product team has defined, baselined, and documented clear sustainability and environmental budget criteria that cover the page, user-journey, and digital service levels and metrics (such as a CO2.js score) that are approved by relevant product stakeholders.							
	Tools such as a performance budget exist to determine the maximum size (goals) your app or website can weigh to reduce the data transfer and HTTP request impact (using metrics like Google Lighthouse).							
	KPIs are defined around engineering hours, development time, or sprints keeping the health and wellbeing of your workers paramount. Consideration has been taken around optimizing your workflow sustainably to allow all tasks to be performed with care.							
	The product team can measurably show how much the budgeting process improved performance and reduced emissions.							
	The product team invests in resources to build capacity and maintain the budgets over time.							

	Impact & Effort	Medium		Medium				
	GRI	Medium	Medium	Medium	Medium			
5.28	Use Open Source Tools							
	Success Criterion							
	The organization has a clear open source policy in place that outlines how it uses open source tools and the practices it supports surrounding open source development.							
	The organization has a track record of collaboration and community-building around open source principles.							
	The organization regularly contributes to open source community-based projects.							
	Impact & Effort	High		High				
	GRI	Medium	Medium	Medium	Medium			
5.29	Create a Business Continuity and Disaster Recovery Plan							
	Success Criterion							
	The organization has created a plan of action that is regularly reviewed and occasionally tested to determine readiness in case of an incident and has procedures to quickly recover from such issues.							
	The organization regularly maintains transparent communication with its audience regarding issues that may affect service delivery or user data.							
	Impact & Effort	Low		Medium				
	GRI	Low	Low	Low	Low			