

Global Roadmap for Multilingualism in the Digital Era: Advancing the role of Language Technologies

Key takeaways and a strategy to implement the Language Technologies for All call for action

The Global Roadmap for Multilingualism in the Digital Era: Advancing the Role of Language Technologies is an initiative led by UNESCO to address the growing need for multilingual access and inclusion in digital spaces. It aims to guide global efforts in leveraging language technologies—like machine translation, speech recognition, and natural language processing—to ensure that all languages, including low-resource and endangered ones, are supported in the digital world.

To ensure the Roadmap reflects the needs and perspectives of diverse communities worldwide, a global survey has been launched to gather feedback on the draft. This participatory process invites input from individuals, organizations, and experts across sectors, helping to refine the roadmap and make it more inclusive, effective, and representative of global linguistic realities. Following the consultation process, a final version will be released to the public.

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1. Executive Summary

The Global Roadmap for Multilingualism in the Digital Era provides a strategic framework for advancing language technologies, promoting linguistic diversity and multilingualism, and ensuring that all language users from all language communities can thrive in the digital age. Recognizing that language rights are integral to human rights, the roadmap aims to empower every individual to use and preserve their language in digital spaces. For endangered and vulnerable languages, technology presents both an opportunity for digital survival through new tools and a challenge requiring careful, community-led development to avoid further marginalization.

Developed in response to the urgent call for action from different contexts, particularly the February 2025 Language Technologies for All- LT4ALL Conference and discussions taking place under the umbrella of the International Decade of Indigenous Languages (IDIL 2022-2032), proclaimed by the United Nations General Assembly through its resolution [A/RES/74/135](#), the roadmap proposes a way forward to address current disparities in language technology development and deployment.

In an effort to create an inclusive, open and diverse digital ecosystem, the roadmap focuses on six strategic objectives: ensuring universal and equitable access to language technologies; facilitating access for language communities to community-driven solutions tailored to their needs; establishing ethical¹ and inclusive digital governance with a focus on data sovereignty and on the protection of freedom of expression – to communicate and to express own opinion using one’s preferred language; building sustainable global multi-stakeholder partnerships for collaborative solutions and knowledge exchange; providing focused support for endangered and vulnerable languages, as well as Indigenous and sign languages; and ensuring future technological readiness by monitoring and adapting to emerging technologies.

This strategy can be implemented through five priority action areas: "Language Community Involvement", "Policy Advancement", "Capacity Building", "Research, Development and Industry", and "Public Awareness and Advocacy".

Achieving the roadmap’s success depends on active multistakeholder collaboration and clearly defined responsibilities among all stakeholders: language communities, governments, industry, academia and research institutions, international organizations, civil society organizations and activists, and media. Guided by the overarching principles of equity, respect, and collaboration, all stakeholders engaged with this roadmap can collectively respond to the LT4All call for action. The response emphasizes immediate

¹ [UNESCO’s Recommendation on the Ethics of Artificial Intelligence \(2021\)](#)

stakeholder participation, prioritized needs assessments, the development of detailed action plans, resource mobilization, piloting and scaling of successful projects, continuous monitoring, and global knowledge exchange. Its success is vital to preventing unprecedented language loss and ensuring a truly multilingual digital future.

2. Introduction

In an increasingly interconnected world, linguistic diversity and multilingualism are vital aspects of inclusion and communication. AI and emerging technologies are fundamentally altering the landscape of multilingualism, impacting how it functions and evolves. This 'Global Roadmap for Multilingualism in the Digital Era' addresses the critical need to ensure all languages are equitably represented and supported in the digital landscape.

This roadmap will explore vision and objectives, priority action areas, stakeholder responsibilities, and implementation strategies to achieve a truly multilingual digital future.

2.1. UNESCO's Commitment

In collaboration with UNDESA, UNESCO spearheads the [International Decade of Indigenous Languages \(IDIL 2022–2032\)](#), dedicated to preserving, revitalizing, and promoting Indigenous languages and global linguistic diversity. This commitment to multilingualism and linguistic diversity builds upon existing frameworks such as the UNESCO's [2003 Recommendation concerning the Promotion and Use of Multilingualism and Universal Access to Cyberspace](#) and the [Global Action Plan of IDIL 2022-2032](#), as well as initiatives and projects like the [World Atlas of Languages](#), further reinforcing UNESCO's dedication.

Aligned with UNESCO's Medium-Term Strategy for 2022–2029 (41 C/4) and Programme and Budget for 2024–2025, this roadmap adopts a holistic, intersectoral, and multidisciplinary approach. It integrates freedom of expression, education, culture, social inclusion, sciences, ethics, and digital technologies to effectively advance linguistic diversity and multilingualism and to counter digital exclusion. It also contributes to UNESCO's Global Priorities—Africa and Gender Equality—and is inextricably linked to the achievement of the Sustainable Development Goals.

3. Vision and Objectives

3.1. Long-term Vision: Community-driven decision-making in language technology deployment, use, and data governance.

The long-term vision is a future where Language Technologies enable all linguistic communities to flourish in the human-machine era, regardless of their size, resources, or current digital presence. UNESCO is committed to building a world where linguistic diversity

is strengthened, multilingualism thrives, social inclusion is fostered, and global access to information, education, and freedom of expression are expanded through equitable access to Language Technologies, further enhancing the free flow of information, ideas and knowledge. This vision imagines digital spaces where every language is valued, supported, and can fully participate in global conversation.

3.2. Short-term Vision: Immediate Action

Within the International Decade of Indigenous Languages (IDIL 2022-2032), the following two critical actions will be undertaken in parallel. First, the stakeholders should prioritize the systematic collection of data to identify the specific Language Technology needs of diverse languages worldwide, with communities primarily taking the lead in determining these needs and involving relevant stakeholders in the process. Second, alongside data collection, the stakeholders should develop a detailed Action Plan for the implementation of this roadmap and initiate key foundational activities such as establishing working groups and securing initial funding.

Moreover, the stakeholders will proactively foster active engagement of language communities, governments, academia, industry, NGOs, Civil Society Organizations, and the wider public to champion and implement the steps outlined herein. To this end, the stakeholders form strategic partnerships to pilot model projects, such as language technology training workshops and data digitization efforts, to demonstrate and refine the approaches detailed in this roadmap.

3.3. Strategic Objectives

To achieve the long-term vision of an inclusive digital ecosystem, the stakeholders pursue the following strategic objectives:

- **Ensure Universal and Equitable Access:** Drive the widespread adoption of Language Technologies by ensuring universal, affordable access and promoting an enabling environment for all languages in digital spaces.
- **Facilitate Language Communities Through Technology:** Advance community-driven Language Technology solutions that are tailored to the needs and decisions of language communities, promoting linguistic diversity and cultural sustainability².
- **Establish Human Rights-Based, Ethical and Inclusive Digital Governance:** Implement policies and governance frameworks that integrate multilingualism, guarantee equitable access to cyberspace, and uphold ethical data handling principles, with particular emphasis on data sovereignty.

² [UNESCO World Conference on Cultural Policies and Sustainable Development – MONDIACULT 2022](#)

- **Build Sustainable Global Partnerships:** Foster robust, multi-stakeholder partnerships to create sustainable, community-led Language Technology solutions and facilitate effective knowledge exchange on a global scale.
- **Provide focused support for endangered and vulnerable languages:** Create targeted mechanisms to empower their communities, ensuring their digital visibility, vitality, and content creation.
- **Ensure Future Technological Readiness:** Develop mechanisms to continuously monitor emerging technologies (e.g., AI, quantum computing) and adapt strategies to leverage their potential for advancing multilingualism and addressing related challenges.

4. Priority Action Areas

4.1. Language Community Involvement

- **Promote Inclusive and Equitable Community Participation:** Address barriers to participation including gender-based, recognize diverse knowledge contributions, and create safe, inclusive spaces for different voices in Language Technology development.
- **Establish Clear Mechanisms for Community Leadership:** Ensure language communities have accessible and empowered roles in all stages of Language Technology development and deployment, including leadership in research, product design, and tool creation for their digital presence.
- **Ensure Meaningful Consultation and Respect for Community Decisions:** Mandate that all stakeholders engage in genuine and comprehensive consultation with language communities, fully honoring their decisions regarding technology, data, and resource development throughout all stages of planning and implementation.
- **Support Community Control over Data:** Enable and support community-driven data governance models that enable communities to decide, manage the collection, storage, access, and use of their linguistic and cultural data, fully respecting their data sovereignty and technological choices.
- **Facilitate Community Capacity to Use and Adapt Technologies:** Provide specific technical training and resources that empower language communities to effectively use and customize Language Technologies, fostering local ownership and agency in digital spaces and ensuring the engagement of marginalized groups.

4.2. Policy Advancement

- **Legislate for Universal Digital Language Access:** Establish policies and technical standards that remove legal and technical barriers, ensuring all languages can fully participate in technological environments and cyberspace.

- **Promote Standards for Multilingual Technology:** Encourage the development and adoption of interoperable Language Technologies and products that inherently support multilingualism and code-switching.
- **Formalize Data Sovereignty Protections:** Institutionalize clear pathways and frameworks that empower language communities to control and manage their linguistic and cultural data.
- **Support the Deployment of Language Technologies in Education:** Create policies that encourage funding and use of digital tools³ (e.g., language learning apps, speech recognition) tailored for diverse languages, including endangered and vulnerable languages.
- **Create Policies for Ethical Data Sharing for Academic Research:** Ensure academia and research have access to linguistic and cultural data to advance research and development in Language Technologies, while explicitly ensuring respect for community decisions regarding the use of data, resources and language technologies.
- **Integrate Linguistic Impact Assessment in Technology Regulation:** Develop and enforce regulatory frameworks that require linguistic impact assessments and ensure active language community participation in technology development.
- **Incentivize Language Technology for Underrepresented Languages:** Implement policies and support mechanisms that specifically incentivize the creation and deployment of Language Technology tools for underrepresented, endangered, and vulnerable languages.

4.3. Capacity Building

- **Equip Language Communities with Digital Resources:** Equip language communities, particularly those under-resourced, with the necessary tools, resources, infrastructure, research, and knowledge to strengthen their digital presence. Support their active participation in adapting and creation of technologies, creating and governing data, and making informed decisions in technology development.
- **Advance Research Capacity for Diverse Languages:** Accelerate the development and deployment of Language Technologies for all languages by strategically allocating resources to developers, especially those from language communities. Prioritize efforts for critically under-resourced languages and encourage innovative approaches, including those not reliant on written data but also making sure that oral knowledge is captured.
- **Develop Comprehensive Training Programs for Skill Enhancement:** Provide specialized training for individuals and institutions to effectively create, utilize, and adapt Language

³ [UNESCO Framework for Culture and Arts Education \(2024\)](#)

Technologies while addressing ethical considerations. Focus on developing programs for linguists, translators, educators, cultural and media professionals.

- **Integrate Language Technology Training for Educators:** Provide educators with targeted training to incorporate Language Technology solutions and ethical considerations into curricula and teaching practice, promoting multilingual education and digital literacy.
- **Provide Data Skills Training for Community Members:** Offer language community members specific training in data collection, annotation, and management to actively contribute to linguistic datasets.
- **Support Language Documentation and Digitization:** Fund and support community-led initiatives for language documentation and digitization, with a focus on indigenous and endangered languages.
- **Enhance Digital Literacy and Resilience:** Build community preparedness for digital spaces through digital literacy programs and educational initiatives that promote digital resilience.

4.4. Research, Development and Industry

- **Invest in Innovation and Resource Allocation:** Support and fund research and development initiatives to enhance Language Technologies, products, solutions, approaches, methods, and tools for all languages, particularly prioritizing dedicated resources for under-represented languages and researchers from language communities.
- **Prioritize Research for Under-Resourced and Endangered Languages:** Focus research efforts on supporting the digital presence of critically under-resourced and under-documented languages.
- **Develop Data Methodologies for Authentic Language Use:** Create methodologies for collecting, processing, and utilizing language data to build Language Technologies that support authentic linguistic usage.
- **Encourage Innovative and Interdisciplinary Research:** Foster research that combines linguistics, computer science, cultural studies, and other disciplines. Explore emerging technologies, including augmented and virtual reality, and develop multimodal Language Technologies to supplement lost language elements and enhance communication.
- **Advance Domain-Specific and Data-Efficient Technologies:** Support the creation of domain-specific and culturally nuanced Language Technologies (translation, speech, sign language) for under-represented languages. Implement data augmentation and synthesis to address data scarcity.

- **Establish Robust Evaluation Frameworks:** Develop and apply evaluation frameworks and methods to improve the accuracy, quality, and inclusivity of language data and Language Technologies, with a focus on under-resourced languages.
- **Facilitate Knowledge Sharing through Open Platforms:** Create and maintain multi-stakeholder and openly licensed repositories, events, contact platforms, and educational resources to foster knowledge exchange and accessibility for all language communities.
- **Ensure a trustworthy and safe digital environment:** adopt the necessary measures to mitigate the human rights risks to linguistic communities⁴.
- **Leverage Artificial Intelligence:** Investigate and implement AI-driven solutions to enhance Natural Language Processing, translation, and speech technologies, with an emphasis on building models that can work with limited data and diverse linguistic structures.
- **Explore Quantum Computing Applications:** Investigate the potential applications of quantum computing in processing large linguistic datasets, developing more efficient translation algorithms, and enhancing data security and storage for language resources.

4.5. Public Awareness and Advocacy

- **Launch Broad Awareness Campaigns for Digital Linguistic Equality:** Initiate widespread campaigns to emphasize the importance of linguistic diversity and digital equality, highlight technology's role in sustaining it, and raise awareness of challenges and risks language communities face from unequal access, technology development lacking due diligence, and the absence of essential language tools.
- **Collaborate with Media to Spotlight Success and Strategies:** Actively partner with media outlets and social advocates to showcase success stories, community-led initiatives, and effective strategies for overcoming obstacles in sustaining languages and global linguistic diversity.
- **Develop and Distribute Multimedia Content to showcase Diversity:** Organize events, create engaging publications and digital content, and leverage diverse platforms to showcase linguistic diversity in cyberspace and promote responsible development and deployment of Language Technologies for under-resourced languages.
- **Advocate for Linguistic Diversity in Education Curricula:** Promote the integration of topics related to linguistic diversity in cyberspace into educational programs, emphasizing the benefits and challenges of language use in digital domains, the necessity of community involvement, and responsible online language presence.

⁴ [UNESCO Reflection Group on Diversity in the Digital Environment \(2024\)](#)

- Foster secure and inclusive digital spaces where language communities can thrive, alongside transparent and respectful dissemination of information concerning languages, their users, and community choices.

5. Stakeholder Roles and Responsibilities

Achieving the ambitious vision and objectives of this roadmap requires a concerted and collaborative effort from all stakeholders. This section outlines the specific roles and responsibilities of each key group.

In addition to the specific roles and responsibilities outlined below under each stakeholder's section, the following overarching principles of collaboration, resource mobilization, and monitoring & evaluation apply to all stakeholders:

- **Collaborate Actively and Build Partnerships:** Engage proactively with all relevant stakeholders, fostering regional, international, and intersectoral partnerships to support the responsible development and adaptation of Language Technologies and facilitate global knowledge exchange. This includes active participation in multi-stakeholder platforms and the creation of collaborative initiatives.
- **Secure and Leverage Resources Effectively:** Identify, secure, and leverage diverse funding sources, including public investments, private sector contributions, and grants. Actively contribute to and utilize sustainable financing models to support Language Technology development and community empowerment, recognizing language communities as key sources of data and knowledge.
- **Monitor Progress and Continuously Evaluate Impact:** Regularly monitor and evaluate the progress and impact of initiatives using clear indicators and benchmarks. Establish or participate in review mechanisms, implement adaptive frameworks for strategy refinement based on feedback and evolving challenges, and support testing and certification programs for Language Technologies to ensure quality and inclusivity.

5.1. Language Communities

Language communities have the option to engage in as many of the below activities they wish to:

- **Champion and Expand Digital Language Use:** Actively promote, encourage, and support the use of their language in all digital domains.
- **Take Ownership and Actively Engage in Digital Development:** Participate fully in establishing the conditions for using their language digitally, producing digital content, and making key decisions regarding Language Technologies and data management.

- Demand Active Engagement and Respect from Stakeholders: Expect and request active engagement and respect from other stakeholders concerning their community's needs, decisions, and data sovereignty related to their language's digital presence.
- Contribute to Language Documentation and Technology Development: Support language documentation, actively participate in the design, development, testing, and deployment of language data collection relevant methodologies, resources and technologies, and contribute language data, linguistic expertise, and cultural insights to co-develop Language Technologies.
- Build Community Capacity in Digital Skills and Governance: Support the training of community members in digital literacy, data and technology governance, data management, and the use and development of Language Technologies.
- Share Knowledge and Resources with All Stakeholders: Actively participate in sharing resources, best practices, experiences, and knowledge with other language communities and stakeholders.

5.2. Governments

- Mandate Community Consultation in Digital Initiatives: Require active engagement with language communities in developing and enhancing public services and initiatives, ensuring their needs and decisions guide digital strategies.
- Lead National Strategy Development and Partnerships: Formulate national strategies for linguistic diversity in the digital era, aligned with international frameworks, and foster strategic partnerships among all stakeholders.
- Enforce Policies for Universal Digital Language Access: Create and implement policies to remove legal and technical barriers, enabling and promoting the use of all languages in inclusive and safe digital domains.
- Establish Regulatory Frameworks for Language Technology Integration: Develop regulatory frameworks that support the integration of Language Technologies in education, governance, and public services, in alignment with international human rights law.
- Fund and Incentivize Language Technology Research and Development: Provide targeted funding and incentives for research, innovation, and open-access development of Language Technologies, particularly for under-represented languages.
- Ensure Multilingual Access to Public Digital Services: Demonstrate leadership by providing multilingual access to public digital services, open data, and communication platforms.
- Promote Ethical and Human Rights-Based Digital Governance: Champion language diversity in digital governance, adopting guidelines and legal mechanisms that ensure

ethical, inclusive and fair representation of all languages and active community participation.

- Support Digital Literacy and Multilingual Education: Fund and support capacity building initiatives through digital literacy and multilingual education programs.
- Conduct Public Awareness Campaigns on Digital Linguistic Equality: Raise societal awareness about the importance of linguistic diversity, digital equality, and the opportunities and challenges of language presence in cyberspace.
- Collect Data and Monitor Digital Inclusion: Gather data to inform policies, monitor digital inclusion, and report on the presence of languages within member states.
- Foster pluralism and diversity in the media by supporting media outlets in their production of multilingual content and services.

5.3. Industry

- Develop Universally Accessible and Fit-for-Purpose Language Technologies: Create and maintain inclusive Language Technologies, products, standards, solutions, and digital spaces that are accessible to all languages, address the specific needs of diverse language communities, and pose no threat to linguistic or cultural integrity, with particular focus on endangered and vulnerable languages.
- Engage Responsibly and Ethically with Language Communities: Ensure collaborative engagement with language communities for culturally sensitive and respectful Language Technology design. Implement ethical data and technology practices, honoring community decisions on data and technology governance.
- Promote Openly licensed and FAIR Data Practices: Adopt and actively promote open-source initiatives and fair data-sharing practices to support linguistic research and the advancement of multilingual Language Technologies. A special attention to be paid to language communities, such as Indigenous Peoples, adopting different strategies for and against open data in dealing with language data, resources and solutions.
- Drive Research and Innovation for Data-Scarce Languages: Support and invest in research and innovation in data-scarce environments, including developing non-text-based and multimodal Language Technologies.
- Contribute Actively to Language Technology Knowledge Sharing: Actively participate in knowledge-sharing platforms and contribute to open repositories, facilitating the exchange of information and resources related to Language Technologies.

5.4. Academia, Cultural and Research Institutions

- Empower Language Communities Through Research and Capacity Building: Provide essential resources, research, and training to enable language communities, educators, industry, and policymakers. Foster community-led and inclusive research, focusing on

under-resourced, endangered, and Indigenous languages, to enhance their digital presence and development.

- **Conduct Comprehensive Interdisciplinary Research on Language Technologies:** Undertake rigorous interdisciplinary research combining linguistics, computer science, cultural studies, Indigenous Studies, arts, and other relevant disciplines. Focus on methodologies, applications, addressing data scarcity, and supplementing lost language elements for sustainable language use in digital domains.
- **Develop Specialized Training Programs in Language Technology Adaptation:** Design and implement specialized training programs for language communities, linguists, educators, and technology developers, emphasizing the adaptation of Language Technologies for multilingual use and addressing the challenges of underrepresented languages.
- **Actively Contribute to Ethical Frameworks for Language Data and Technology:** Participate in developing and refining ethical guidelines for language data collection, use, and technology governance, ensuring community involvement and data sovereignty.
- **Establish Robust Evaluation Methodologies for Language Technologies:** Create and apply robust evaluation frameworks to enhance the accuracy, cultural nuance, and overall quality of Language Technologies, with a focus on supporting authentic language use and digital equity.
- **Foster Collaborative Knowledge Sharing and Open Science Practices:** Engage in partnerships with all stakeholders to create multi-stakeholder repositories and platforms for exchanging data, experiences, tools, research, and knowledge. Advocate for open-science principles in Language Technology research and development.

5.5. International Organizations

- **Lead Global Initiatives for Linguistic Diversity and Digital Inclusion:** Champion and drive the implementation of global frameworks and initiatives, such as International Decade of Indigenous Languages (IDIL 2022-2032), to promote linguistic diversity, digital inclusion, and the ethical development of Language Technologies.
- **Foster International Collaboration and Resource Mobilization:** Actively facilitate cross-border collaboration and funding for research, capacity building, and policy development in Language Technology, ensuring equitable access for all linguistic communities.
- **Advocate for Language Community Participation and Data Sovereignty:** Consistently advocate for the full involvement of language communities in all stages of Language Technology development and deployment, ensuring their decisions regarding data sovereignty and digital presence are respected.

- Provide Expert Guidance on Inclusive Language Technology Strategies: Offer technical expertise and policy guidance to governments, academia, and industry, supporting the integration of rights-based and inclusive approaches in national and regional strategies.
- Fund Capacity Building and Digital Literacy Programs: Support and fund capacity building initiatives, including digital and technology literacy programs, and the integration of language-related subjects into educational curricula.
- Drive Multilingualism in Global Digital Governance: Advocate for the inclusion of underrepresented languages in global technology policies, community-driven open data initiatives, and technology standards, promoting linguistic diversity in international digital governance.
- Establish and Maintain Multi-Stakeholder Knowledge Platforms: Facilitate the creation and upkeep of repositories and platforms for the exchange of data, research, solutions, and Language Technology tools among all stakeholders.
- Conduct Global Data Collection and Analysis for Evidence-Based Policy: Gather and analyze global data on language use in technologies, leveraging resources like the World Atlas of Languages, to inform digital policies and monitor progress toward digital linguistic inclusion.

5.6. Civil Society Organizations and Activists

- Advocate for Digital Linguistic Equality and Inclusion: Champion policies and initiatives that bridge the digital divide, ensuring equitable access to digital spaces and Language Technologies and advocate for the use of underrepresented languages within digital governance platforms.
- Promote Development and Deployment of Community-Respectful Language Technologies: Support and advocate for the development and deployment of Language Technologies that respect the needs of language communities, incorporating culturally sensitive design, traditional knowledge, and other relevant community aspects.
- Lead Public Awareness Campaigns for Linguistic Diversity: Conduct awareness campaigns to advocate for the preservation of linguistic diversity through digital inclusion, focusing on underrepresented, endangered, and Indigenous languages.
- Facilitate Community Participation in Digital Decision-Making: Enable and support the active involvement of language communities in decisions concerning their digital presence, ensuring their choices are respected.
- Support Language Documentation and Digital Archiving: Promote and support the documentation and digitization of underrepresented languages, leading to the creation of robust digital archives and resources.

- **Build Community Capacity through Training and Initiatives:** Organize and facilitate training programs and community-driven initiatives to ensure grassroots participation in Language Technology projects.
- **Monitor and Report on Digital Impact and Language Rights:** Act as watchdogs, monitoring and reporting on the impact of technologies and digital policies on linguistic diversity and access to information.
- **Lobby for Ethical and Participatory Approaches in Language Technology:** Advocate for the integration of community perspectives into ethical frameworks and policy dialogues, championing ethical and participatory data governance.
- **Facilitate Knowledge Sharing and Resource Platforms:** Establish and maintain repositories, platforms, and other instruments for cooperation and knowledge sharing among all stakeholders, with a focus on underrepresented languages.

5.7. Media Organizations

- **Lead Comprehensive Public Awareness efforts and Campaigns for Linguistic Diversity:** Initiate and conduct widespread public awareness campaigns that emphasize linguistic diversity, the inclusion of all languages in technology, and the crucial need for digital equality, addressing both opportunities and challenges.
- **Promote pluralism and diversity in media by supporting media in the production of multilingual content and services.**
- **Amplify Language Community Voices and Perspectives:** Ensure that the voices of language communities and their language-related issues, including the necessity of their involvement and respect for their decisions, are prominently featured in public discourse, media coverage and content policies.
- **Report on Progress and Challenges in Digital Language Inclusion:** Actively report on and showcase success stories, challenges, and ongoing developments concerning the digital presence of all languages, particularly focusing on underrepresented, endangered, and Indigenous languages.
- **Collaborate to Create Inclusive Digital Media Spaces:** Facilitate access to information by collaborating with Language Technology developers and stakeholders to create inclusive digital spaces for languages in media and social media platforms.
- **Disseminate Educational Content on Digital Literacy and Language Technologies:** Create and disseminate educational content about digital literacy, Language Technologies, and broader issues pertaining to digital equality and the inclusion of all languages.

6. Securing our Linguistic Future

The digital world is now a fundamental reality, profoundly extending and significantly shaping our physical spaces and the lives of diverse communities and individuals. Its influence will only continue to expand. Therefore, concrete, immediate, and responsible action by all stakeholders—industry, governments, researchers, society at large, and language communities themselves—is imperative to secure the equitable presence of all languages in cyberspace. Relevant stakeholders must guarantee opportunities for every language to benefit from technological advancements. Failure to do so poses a grave and imminent threat to the world's linguistic diversity and the very survival of the majority of linguistic communities.

The consequences of inaction are profound. The world risks the unprecedented loss of languages, their rich variations, and the cultural knowledge they embody. Moreover, this inaction would severely hinder the development of tailored technologies, human-centered advancements, and overall technological creativity and innovation.

This roadmap provides a comprehensive framework to guide the global community toward realizing a truly multilingual digital ecosystem. By actively pursuing the visions, objectives, and priority actions outlined herein, and by embracing the shared responsibilities of all stakeholders, it becomes possible to safeguard the world's linguistic heritage. Language Technologies can thereby serve as powerful tools for inclusion, empowerment, and sustainable development for all languages and their communities. As this crucial journey unfolds, it is essential to remain steadfastly committed to the principles of equity, respect, and collaboration, ensuring that no language is left behind in the digital age. The success of this roadmap, and the preservation of global linguistic diversity, depends on the collective commitment and unwavering dedication to this vital cause.