

How the PNMA Concepts Portfolio effectively contributes to the WSIS+20 Process and GDC implementation

Policy Network on Meaningful Access Main Session

25 June 2025

IGF 20
25
NORWAY 

23–27 June 2025
Lillestrøm, Norway

The Policy Network on Meaningful Access



Connectivity



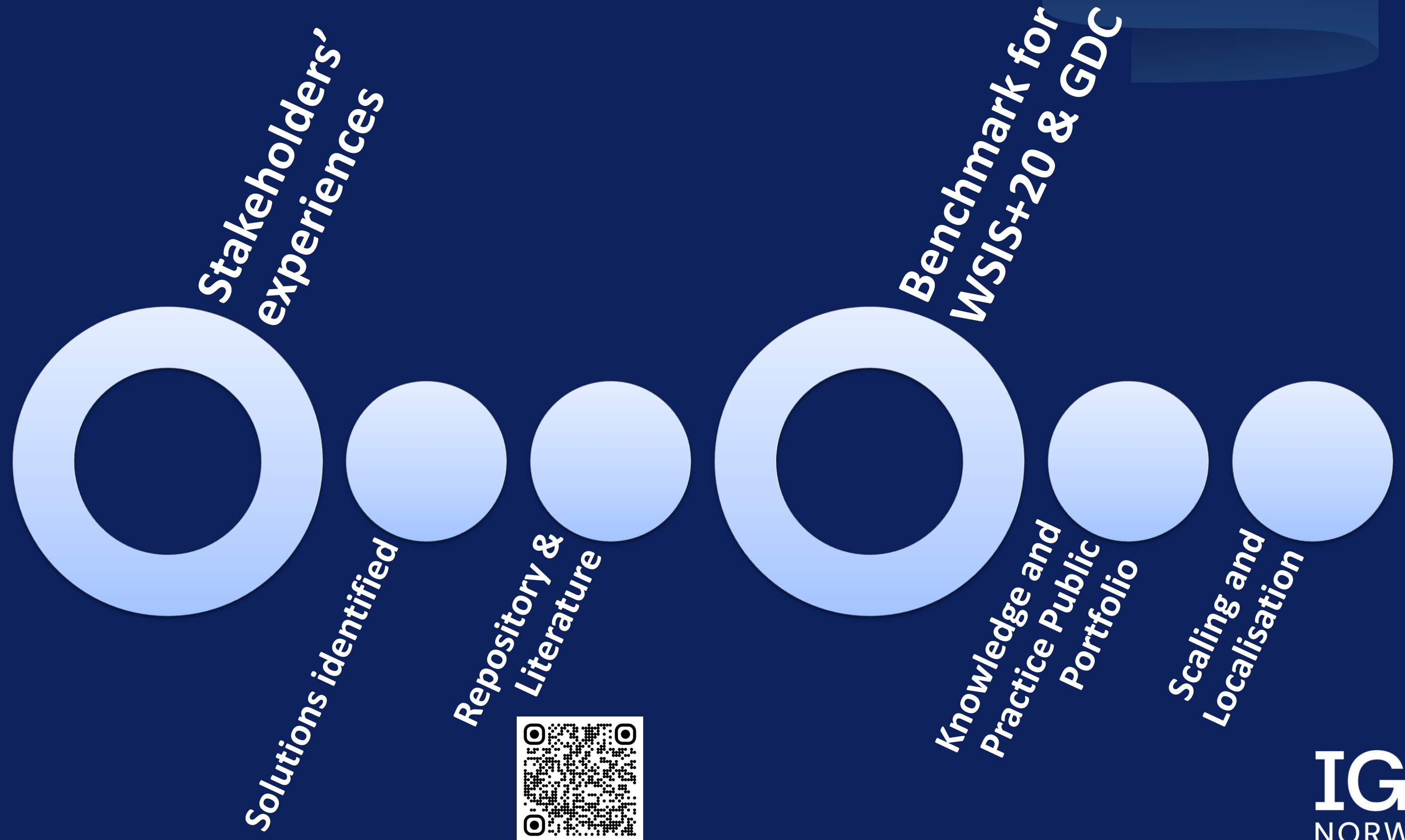
Digital Inclusion
with Multilingualism



Capacity Building



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Join us!



Ready made infrastructure to make it easier to preserve your culture and language in the digital age

Sámi people (500 - 20 000 speakers per language) now have (sorted by complexity):

- ▶ keyboards
- ▶ spell checkers
- ▶ intelligent dictionaries
- ▶ grammar checkers
- ▶ machine translation
- ▶ Synthetic speech (Text-to-speech, TTS)
- ▶ Automatic speech recognition (ASR)

Also used by Greenlandic (55 000), Faroese (70 000), various indigenous and minority languages, mainly in the northern hemisphere.

Infrastructure

These parts are combined to provide the apps mentioned above.

- ▶ language specific
 - ▶ text corpus, grammars and dictionaries
 - ▶ language community/developers governs this part -> mostly open source, but closed source if wanted
- ▶ language independent -> native and web apps
 - ▶ Open source except where NDS forbids it.
 - ▶ Distributed for free in Play Store, App Store and on the web.
 - ▶ Separate free installation apps for Mac and Windows, repos for Linux.

What's in it for new languages

Make linguistic content, get apps and distribution automatically.

- ▶ Maturity: been developed for over 20 years
- ▶ As linguistic work develops and language specific tweaks are done, apps follow automatically
- ▶ Big developer community, 10 production languages, 30 languages in beta quality, 152 languages in all
- ▶ Fairly good documentation

What is needed

- ▶ Native speaker
- ▶ linguist
- ▶ Programmer
- ▶ **Bonus points:** A text corpus eases the development

Development steps

Maturity of the data model decides which apps can be released.

- ▶ **keyboard:** plain text file to describe keyboard layout
- ▶ **data model of the language**
 - ▶ finite state transducers (FST) to process words
 - ▶ constraint grammar (CG) to process sentences

Sites and contact info

Contact e-mail	Info site	Language specific repos	Language independent repos	Development docs
feedback@divvun.no	https://borealium.org	https://github.com/giellalt	https://github.com/divvun	https://giellalt.github.io
				

PRELIMINARY FINDINGS (2025)

Additional resources:



UMC in BRICS countries

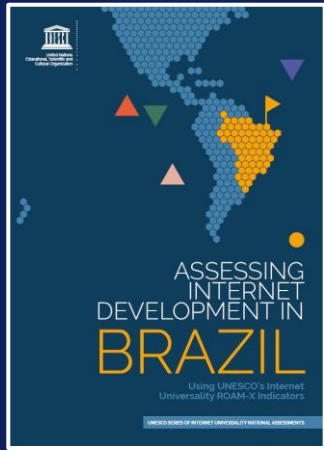


G20 framework for UMC



Meaningful Connectivity in Brazil

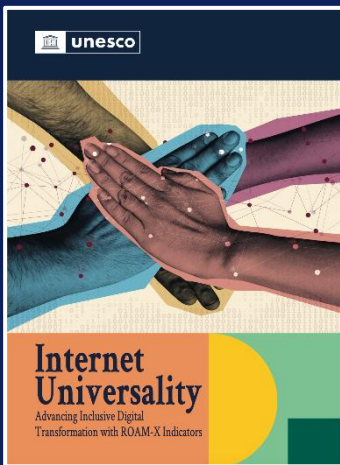
ROAM-X INDICATORS IN BRAZIL



(2019)

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Implementation and data collection



(2024)

egi.br

Multistakeholder Advisory Board (MAB)



About Cetic.br

R



Increased debate on **platform regulation*** and information integrity

O

Advances in the usage of public services and dissemination of **Digital Public Infrastructures (DPI)**

A

Increased connectivity and **Universal and Meaningful Connectivity (UMC)** addressed in plans under discussion

M

Consolidated legal foundation and institutional model supporting **multistakeholder participation**

X

AI Governance is advancing with the launch of National AI Strategy (EBIA) and National Plan (PBIA)

*GDC-related topics



Lack of consensus to approve specific legislation addressing platform regulation

Inequalities in access to digital public services, including lack of usability and accessibility

Lack an integrated approach to UMC in current policies and equity gaps (e.g. gender, rural areas)

Multistakeholder participation in digital policy design relies on discretionary decisions, and have varied considerably over time

National Law under discussion with pending governance models ensuring transparency, risk assessment, and rights-based safeguards



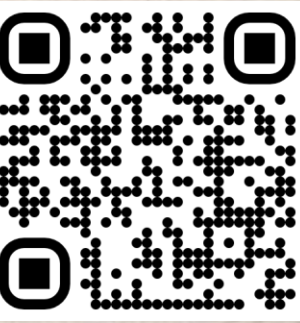
ISOC @ Learning



BRIDGING ACCESS AND PROTECTION:

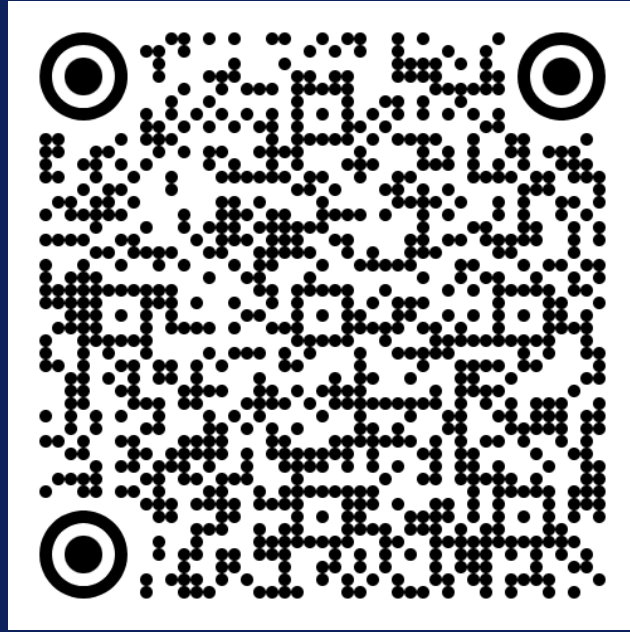
THE MARIWAI PROJECT
AND THE DIGITAL
FUTURE OF CULTURAL
HERITAGE

with Shiva Lynn Burgos
Founder of The Mariwai Project
Special Envoy for Papua New Guinea on Art



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**2025 Main Session
Reference Material**



PNMA Repository



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