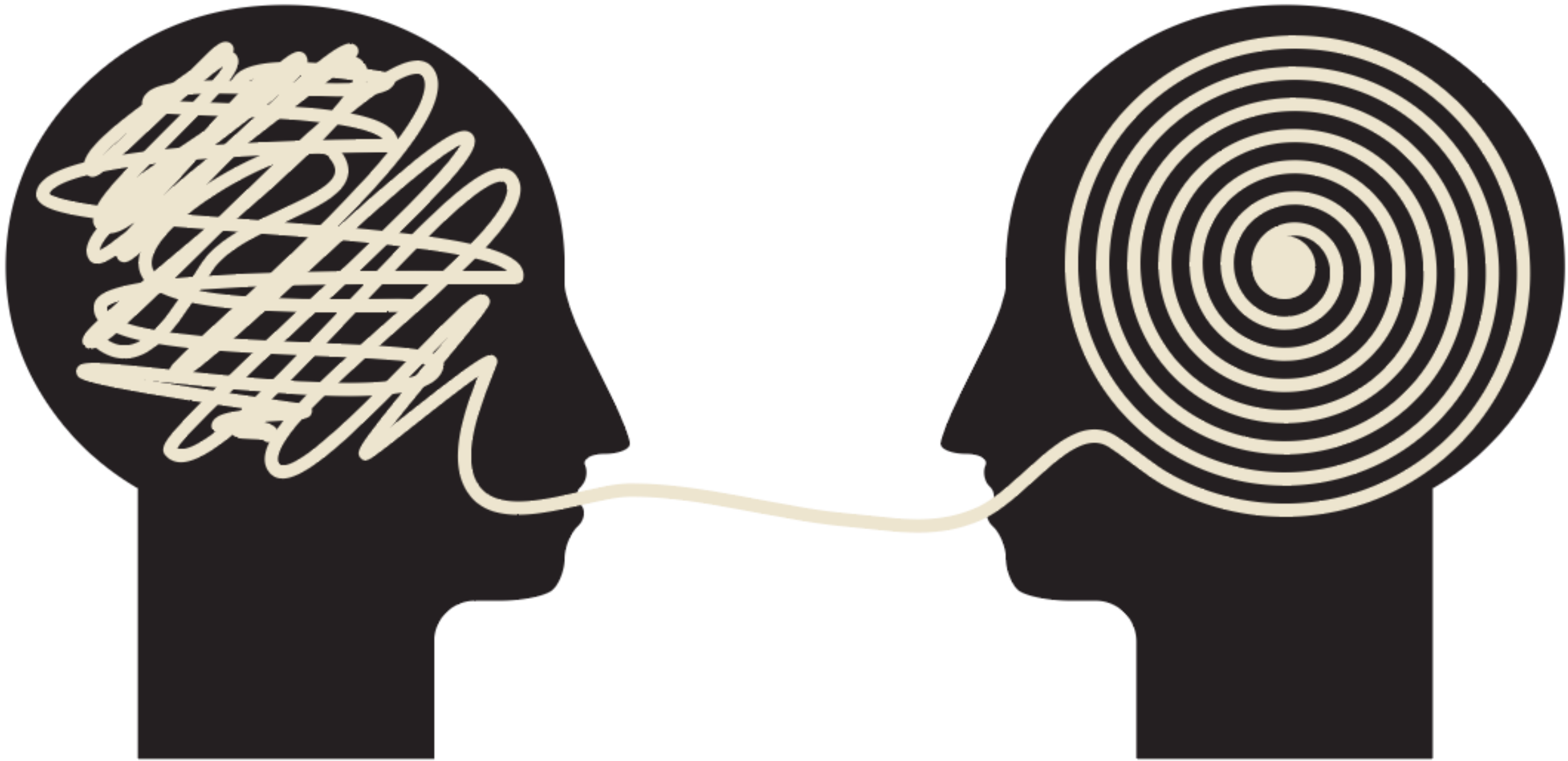


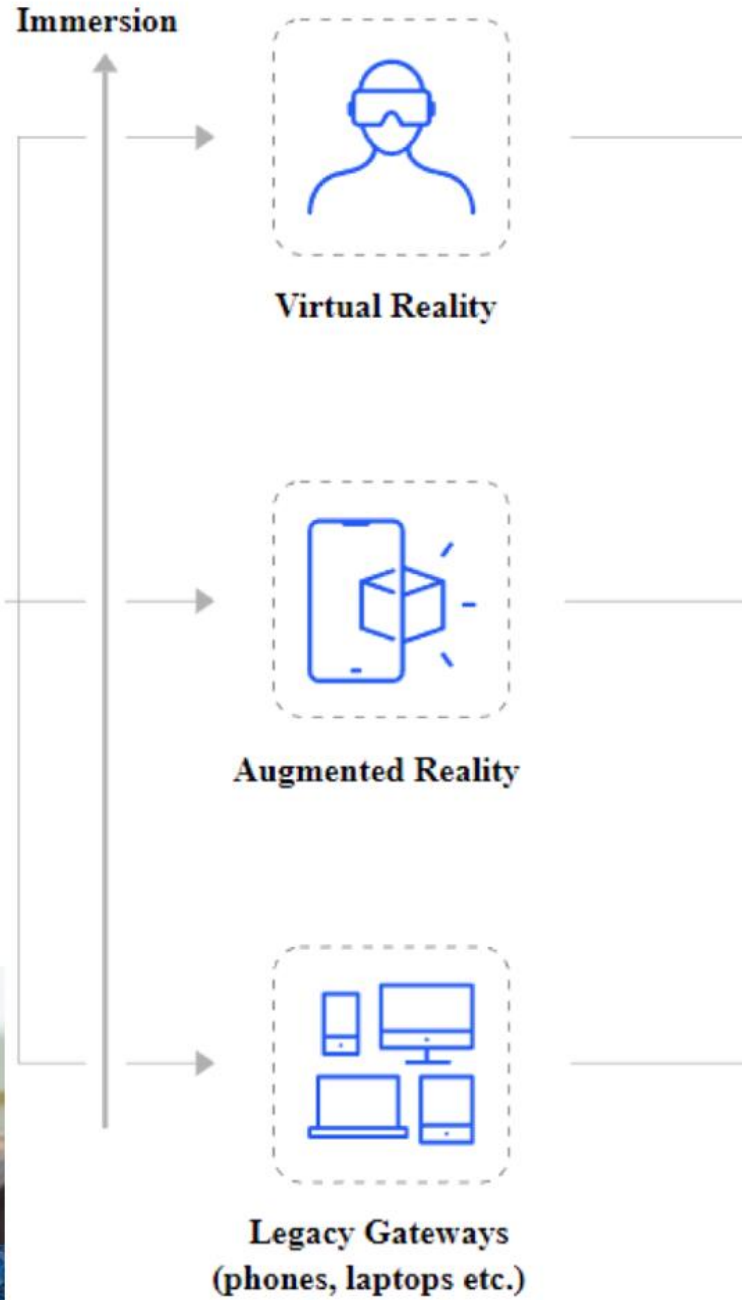
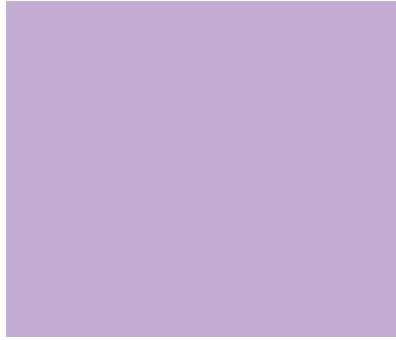
Technical Specification on Requirements for communication between human-avatar languages in the metaverse

5th Forum on Integrating virtual and physical worlds
in the metaverse with digital twin
Geneva, 13th June 2024

Pilar Orero
Co-chair Working group 8: sustainability, accessibility
and inclusion







Item no.	Equation
1.	$dmax := \delta_i \cdot \max_{j=1,2,\dots,J} \{d_{j,p,r}\}$
2.	$avgd := \frac{\sum_{j=1}^J d_{j,p,r}}{J}$
3.	$sd_{p,r} := \frac{1}{\sqrt{J}} \cdot \sum_{j=1}^J \sqrt{(avgd - d_{j,p,r})^2}$
4.	$w_{i,p,r}^{(s,a)} := \left(1 - \frac{sd_{p,r} \cdot avgd}{\max_{\substack{p2=1,2,\dots,P \\ r2=1,2,\dots,R}} (sd_{p2,r2} \cdot avgd)} \right)$
5.	$\overline{x\lambda}_{i,p,r,m}^{(s,a)} := \frac{(m-1) \cdot dmax}{nRules - 1}$
6.	$\overline{\sigma\lambda}_{i,p,r}^{(s,a)} := \frac{\overline{x\lambda}_{i,p,r,2}^{(s,a)} - \overline{x\lambda}_{i,p,r,1}^{(s,a)}}{\ln(1.1)}$

ITU Focus Group Technical Specification

(03/2024)

ITU Focus Group on metaverse
(FG-MV)

FGMV-26

**Requirements for communication between
human-avatar languages in the metaverse**

*Working Group 8: Sustainability, Accessibility &
Inclusion*

ITU Focus Group Technical Specification

FGMV-26

Requirements for communication between human-avatar languages in the metaverse



Spoken

Voice



20 Most Spoken Languages in the World in 2023



WRITTEN - TEXT



TACTILE - BRAILLE





When is ANZAC day?

LLM

LARGE LANGUAGE MODEL





FG MV 16 - Requirements for communication between human-avatar languages in the metaverse

Gracias!

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