

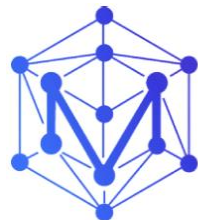


*The UN specialized
agency for ICTs*

3rd ITU Forum on “Cities and the metaverse: shaping a citiverse for all”

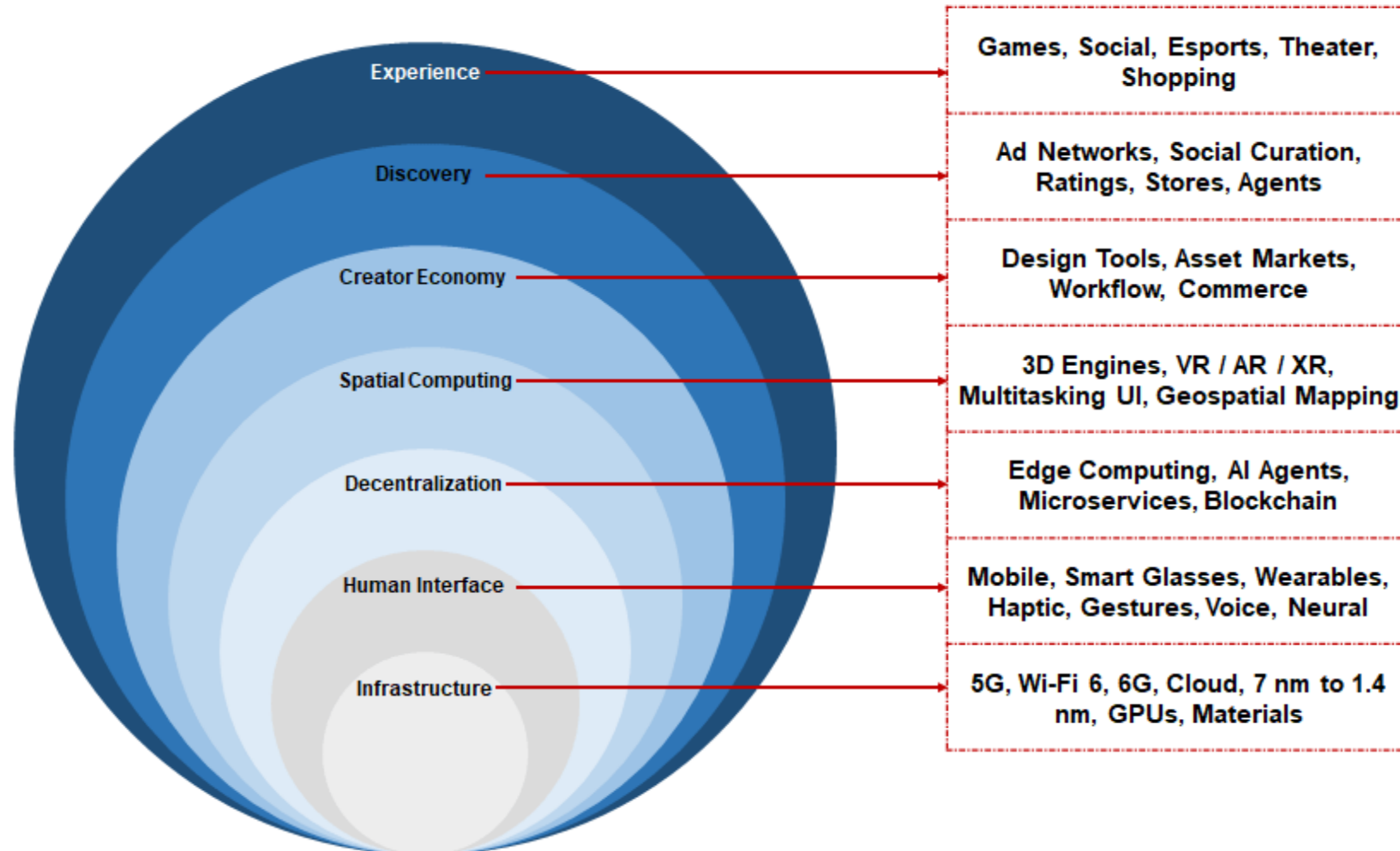
**Digital Connectivity, the key to
unlocking the potential of metaverse through global collaboration**

**Dr. Christina Yan Zhang
CEO and Founder
The Metaverse Institute
13 September 2023**

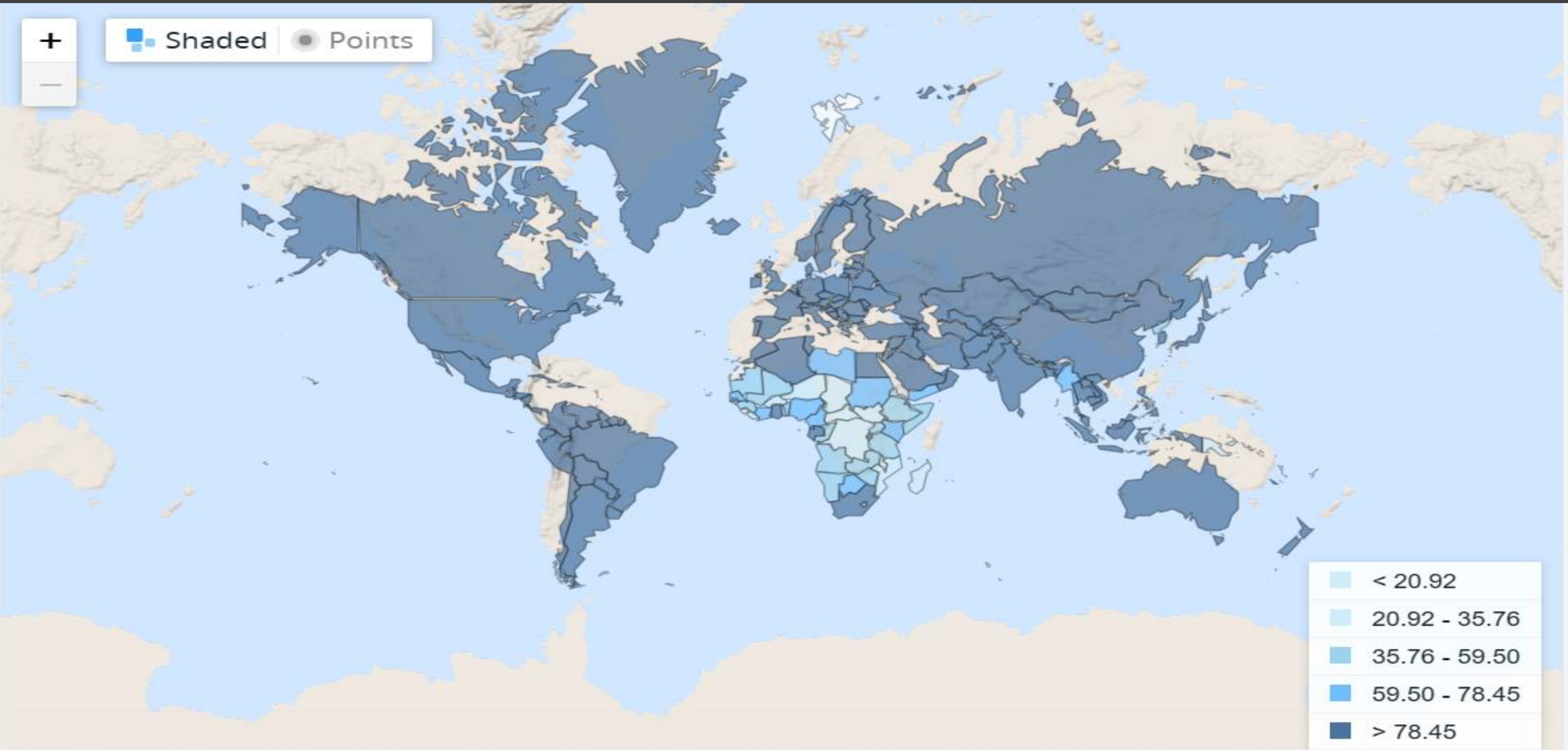


**THE
METAVERSE
INSTITUTE**

The Seven Layers of the Metaverse



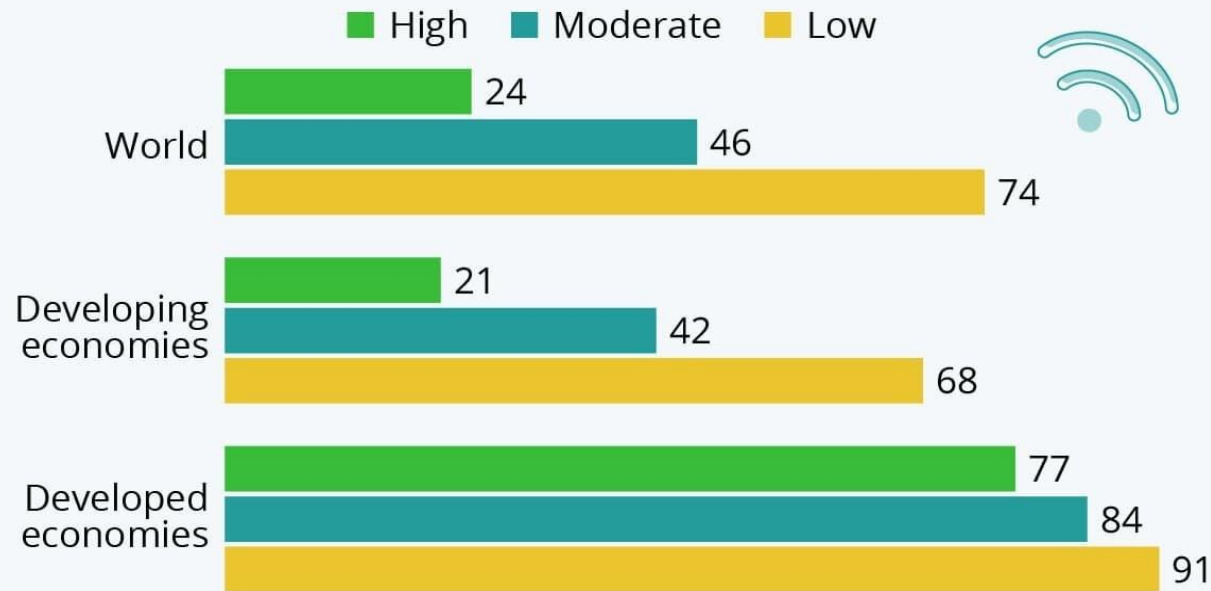
World Bank: over 1.2 bn population, 16% of the world's population have little or no access to electricity (basic lighting, charge a phone, or power a radio for 4 hours/day), 620 million Africans (2/3 population)



1/3 of Global Population do not have access to the internet

Internet Access Low Among Economic Vulnerable

Percentage of people with access to the internet based on economic vulnerability



Economic vulnerability refers to times in the past year when people could/could not afford food and shelter and did/did not have friends or family to help

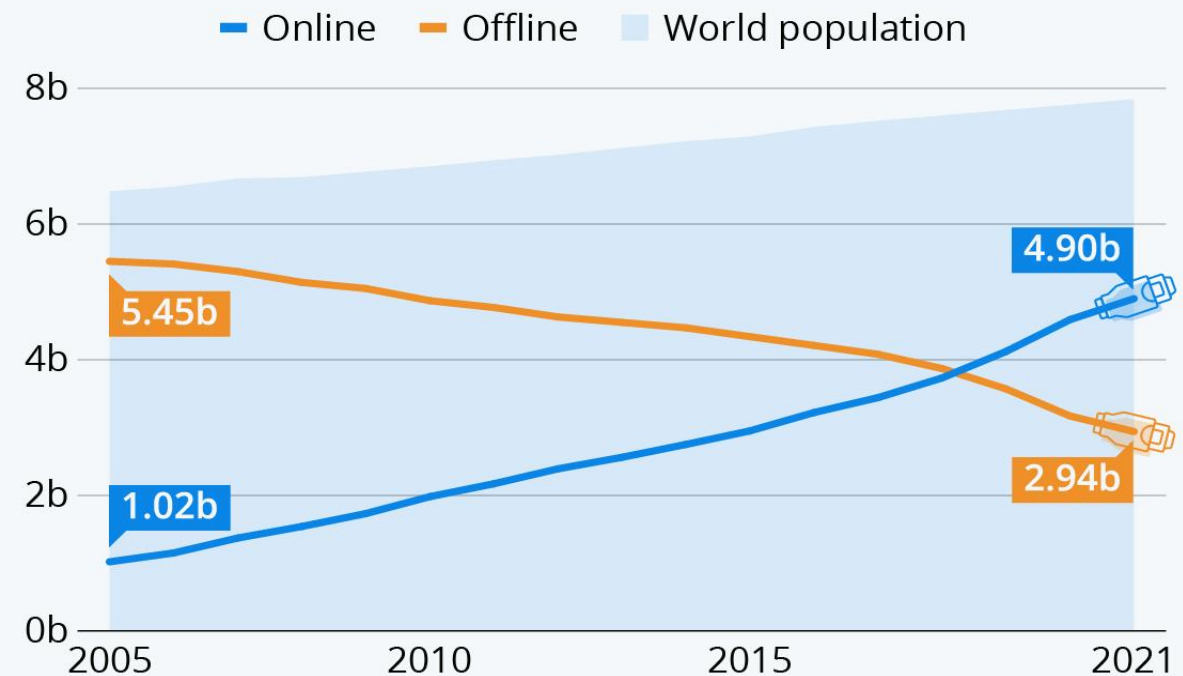
Source: Gallup



statista

Disconnected: 2.9 Billion People Still Offline

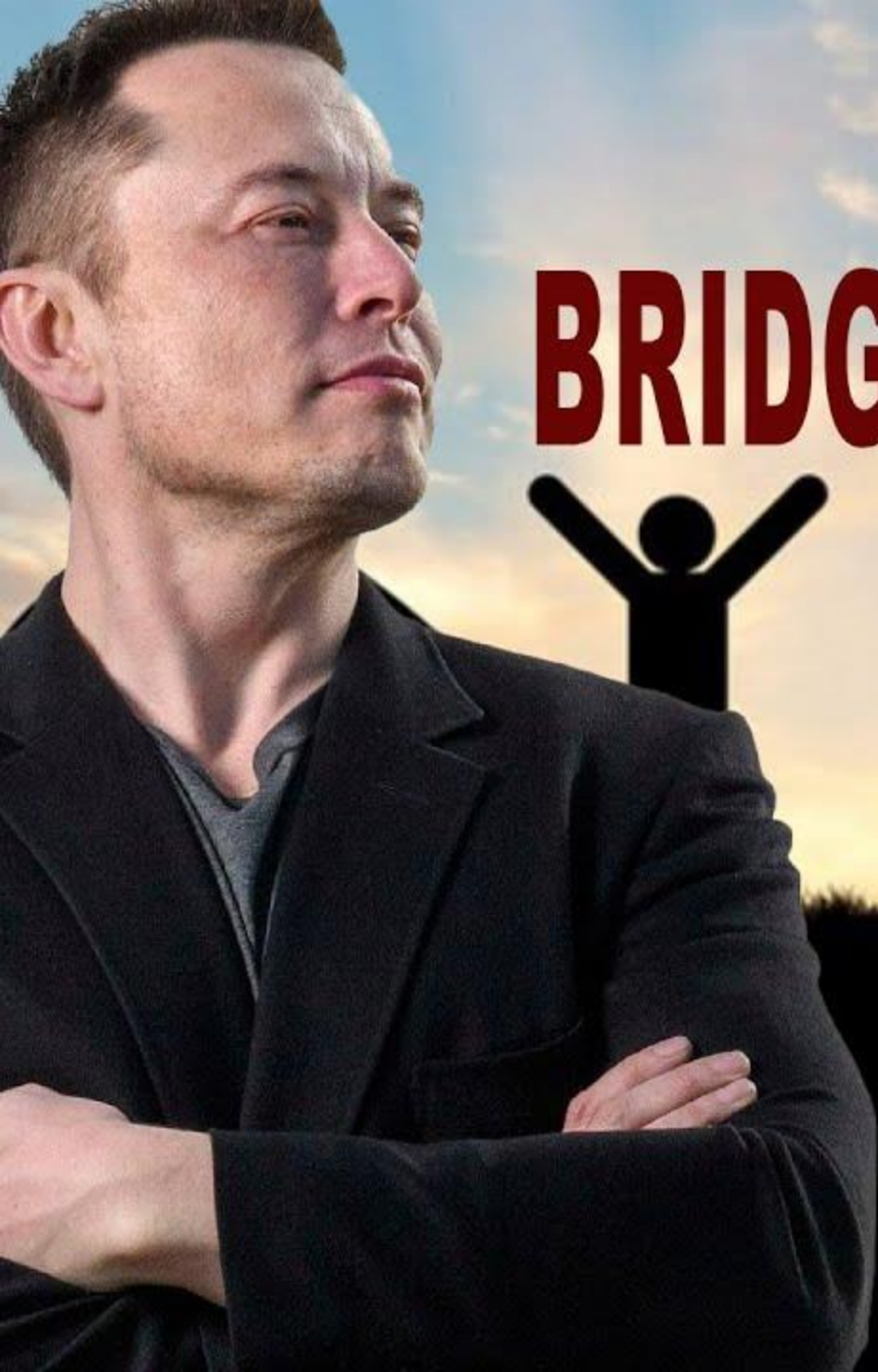
Estimated number of individuals worldwide using/not using the internet



Source: ITU



statista



BRIDGING THE DIGITAL DIVIDE



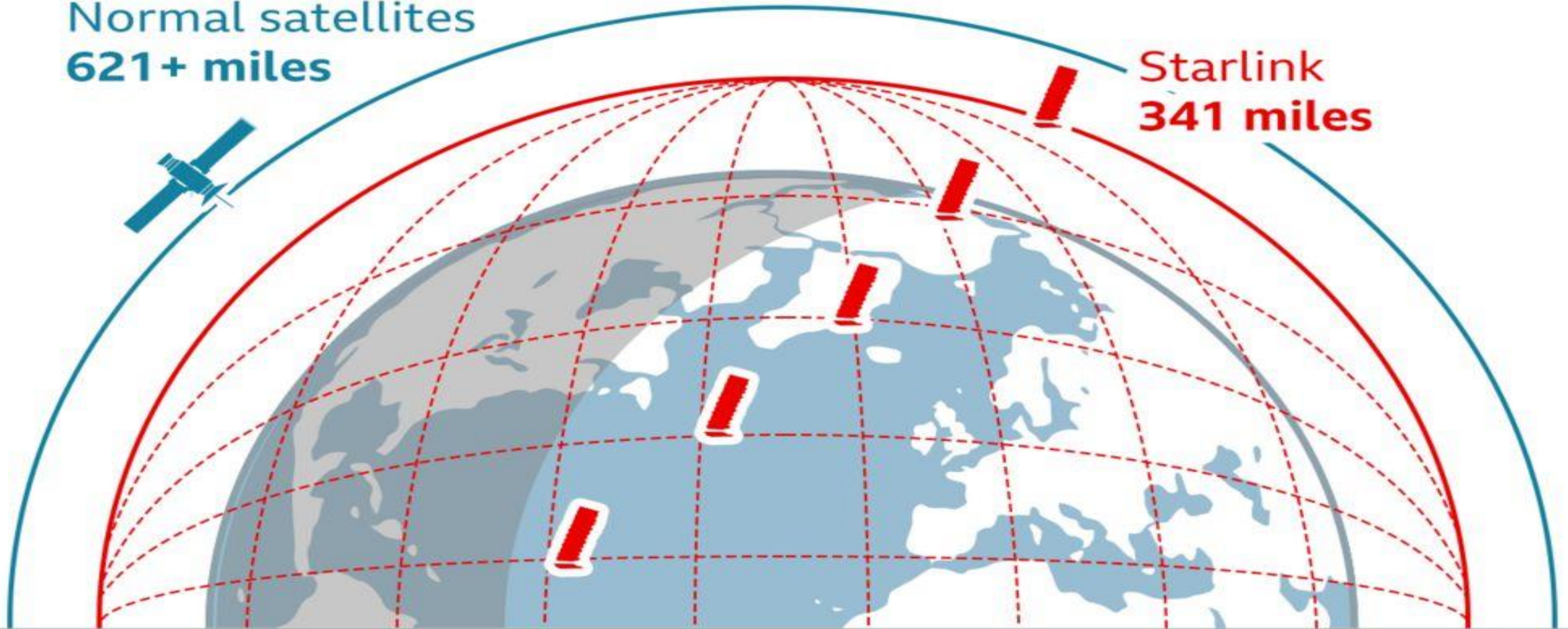
STARLINK

Starlink operates in low orbit

Low-Earth orbit satellites can link to Earth faster, but more are needed to provide coverage

Normal satellites
621+ miles

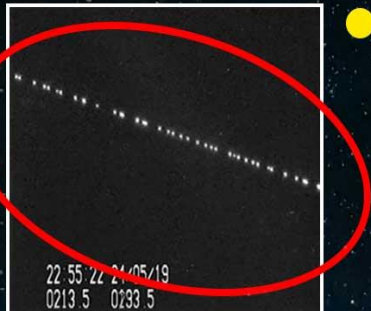
Starlink
341 miles



MUSK WANTS MORE SATELLITES

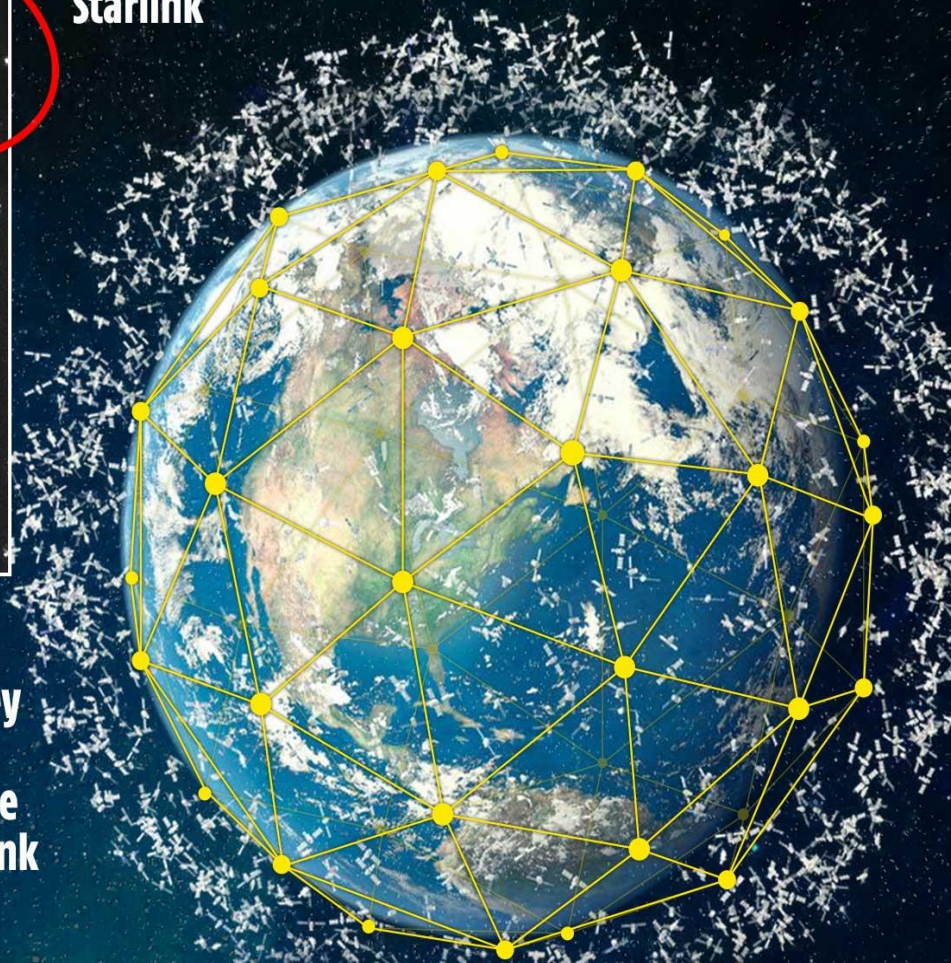
Elon Musk's SpaceX wants permission to put 30,000 more Starlink broadband satellites in orbit despite already planning to send 12,000 up there.

- The satellites will make up a network called Starlink
- They could make the internet 40 times faster



60 of the satellites in the sky above the Netherlands

- Some experts are worried they will create an impenetrable wall of space junk



The Growth of the SpaceX Starlink

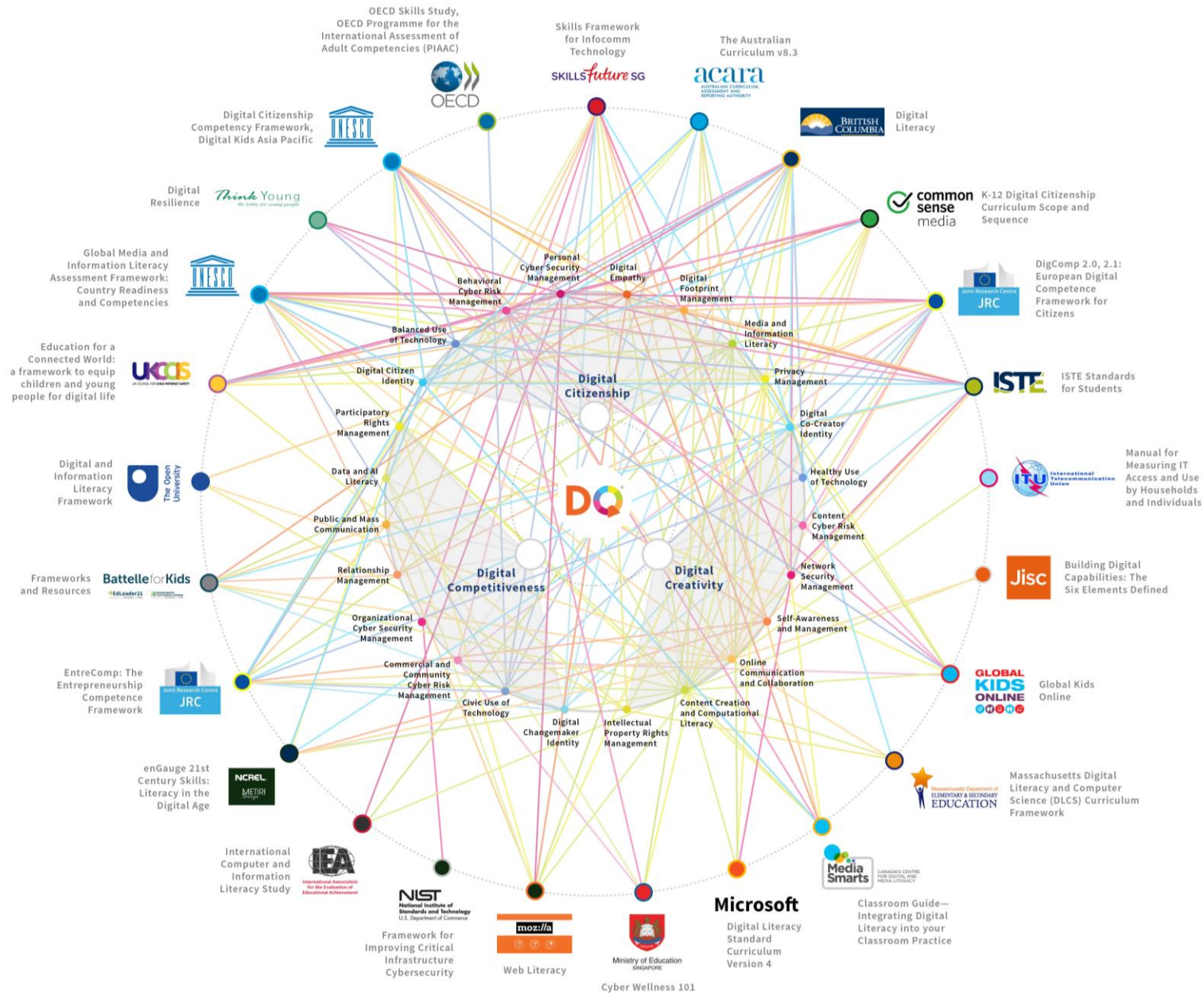
Number of Starlink satellites in space



Source: SpaceX

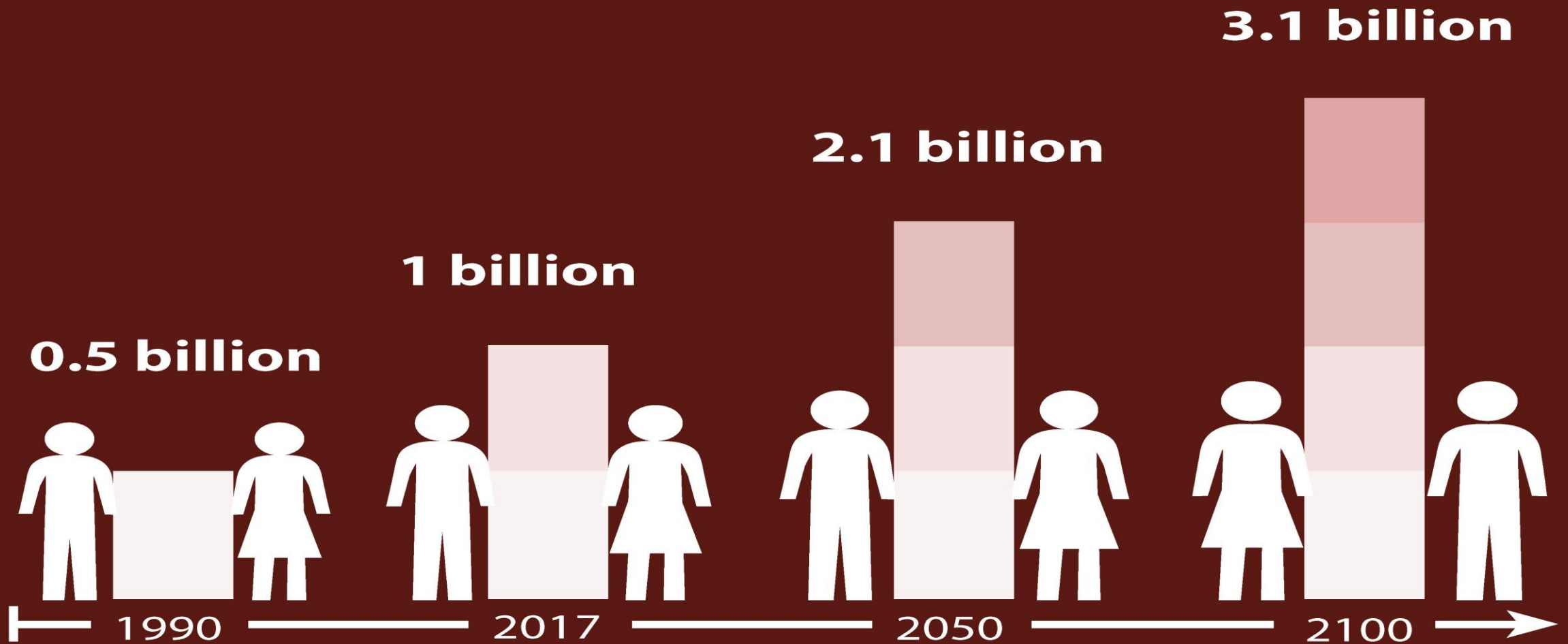


DQ Institute(2019)Digital Literacy, skills, readiness is key to bridge the digital divide



Ageing Population

Projected global population aged 60 years or over



Source: United Nations Department of Economic and Social Affairs,
Population Division, *World Population Prospects: The 2017 Revision*
Produced by: United Nations Department of Public Information



Tampere Metaverse Vision 2040

The World's First People Centred Metaverse Strategy

Leading the UN work on international standardisation for CitiVerse (Metaverse for Cities): ITU's Metaverse Focus Group Vice Chair for Sustainability, Inclusion and Accessibility, Co-Chair of CitiVerse, Advisory Council for International Science Council





UNESCO IITE Webinar Series
Harnessing Technology to Transform Education


How Versed Are You in Metaverse?









Keynote speaker at the UNESCO event on using the Metaverse for the Future of Education


HIGH-LEVEL POLITICAL FORUM ON SUSTAINABLE DEVELOPMENT
HLPF side event
Exploring the metaverse: A New World of Possibilities for Cities and Communities
13 July 2023
14:00-15:30 CEST
 Speak at the Annual UN High Level Political Forum on Sustainable Development about Metaverse for Cities


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 The global voice for science
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 Christina Yan Zhang, CEO and Founder, The Metaverse Institute	+	 Sudip Parikh, CEO of the American Association for the Advancement of Science (AAAS)

Advise the world's largest science body of 230 national academies of sciences on metaverse, AI and other frontier tech and their impact on the future of sciences and innovations

A close-up photograph of several hands of different skin tones clasped together in a circle. The hands are wearing various colored sleeves: a pink knitted sleeve, a brown textured sleeve, an orange sleeve, a green knitted sleeve, and a blue knitted sleeve. The background is dark and out of focus. The text is overlaid on the image in a white serif font.

If you want to go fast go alone, if
you want to go far go together

African Proverb



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