Topics

- ITU
- Thought on Standardization
- History of Generations: 1G to 5G
- Future Beyond 6G toward 12G

WWRF 5G HUDDLE 2018
in DURBAN, SOUTH AFRICA

WWRF 5G HUDDLE 2018
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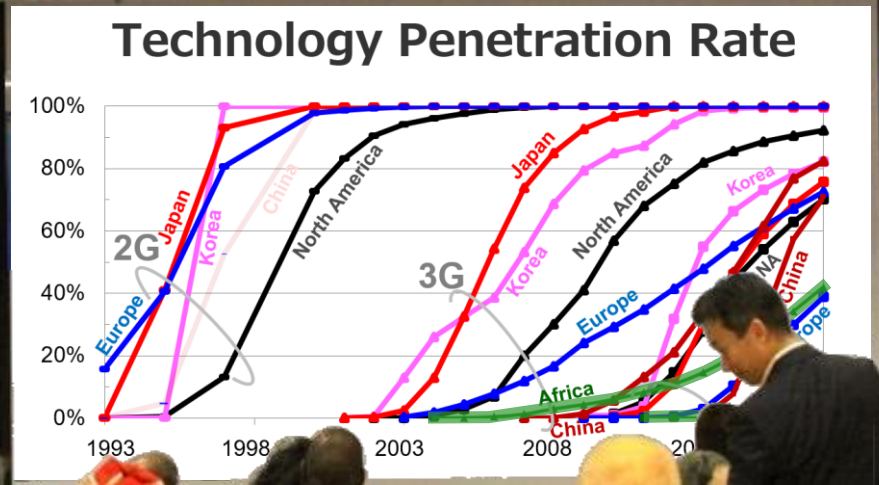
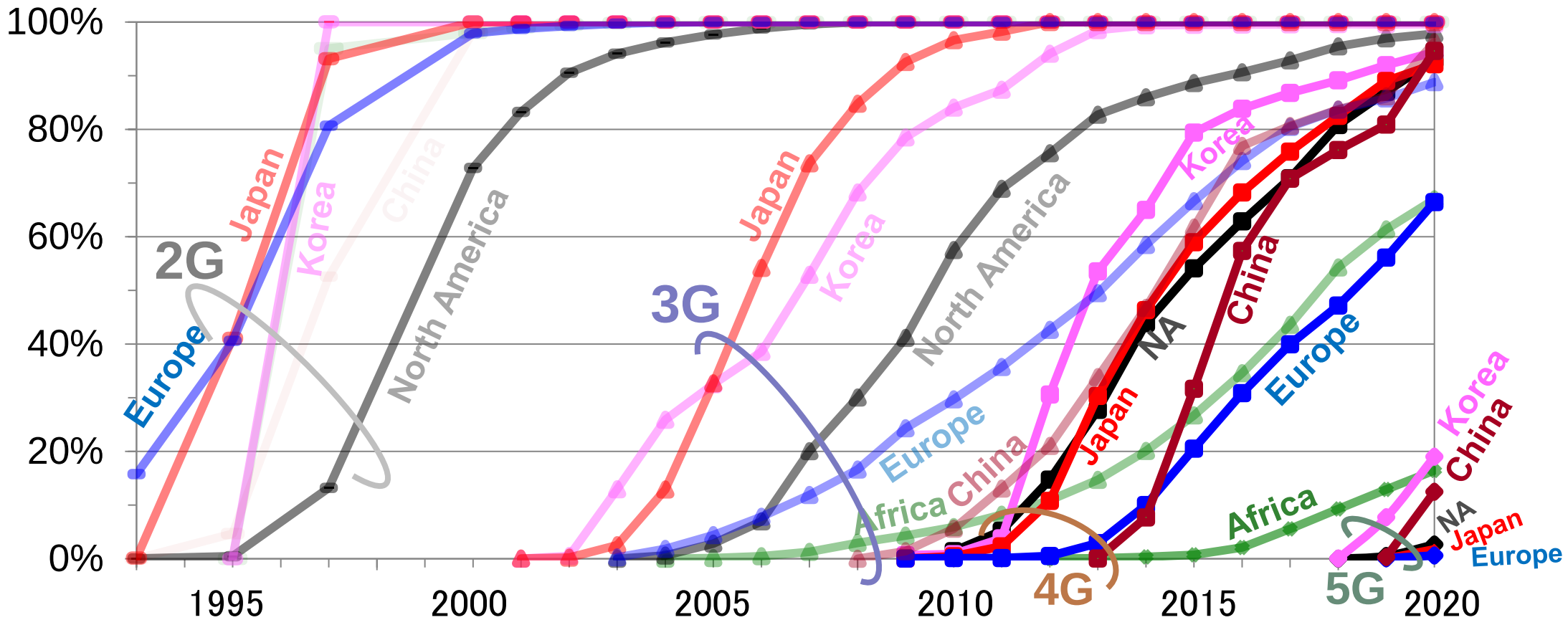
WIRELESS WORLD RESEARCH FORUM
5G HUDDLE 2018
5G FOR ALL
29 & 30 May 2018 / DURBAN . SOUTH AFRICA



Technology Penetration Rate



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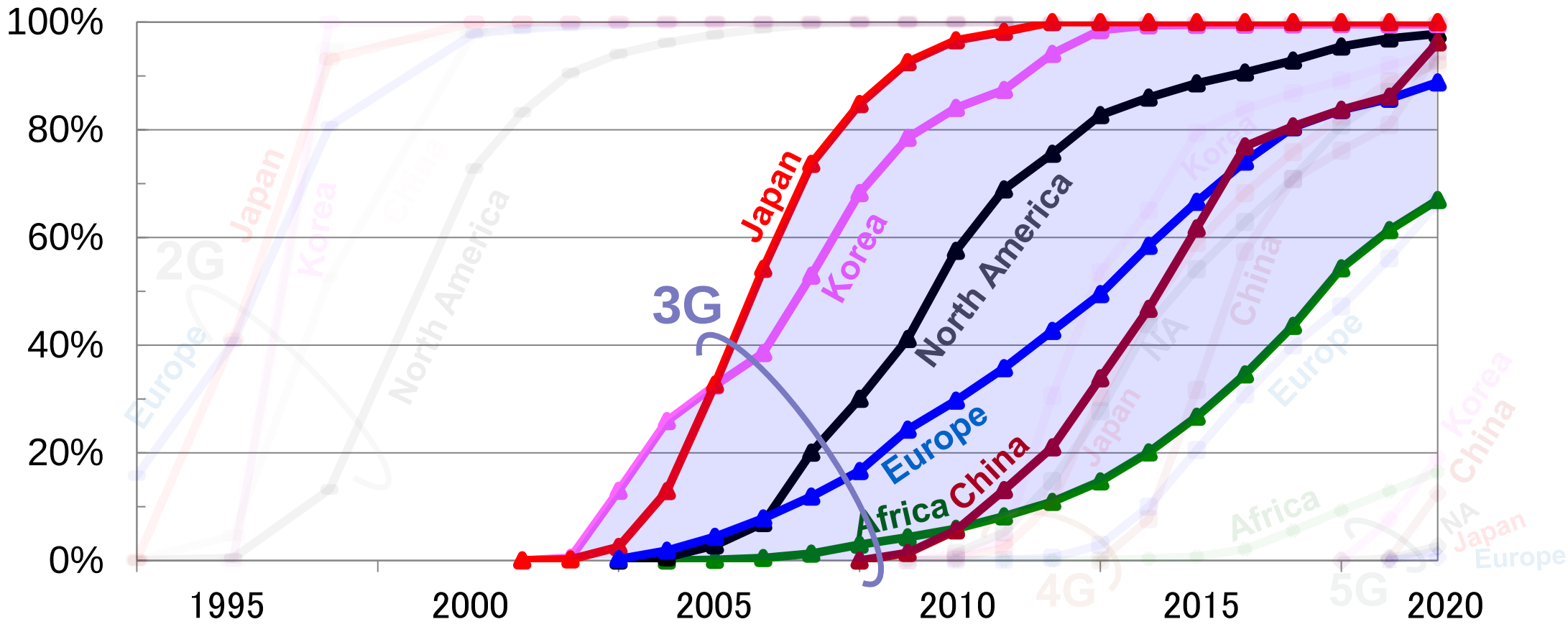

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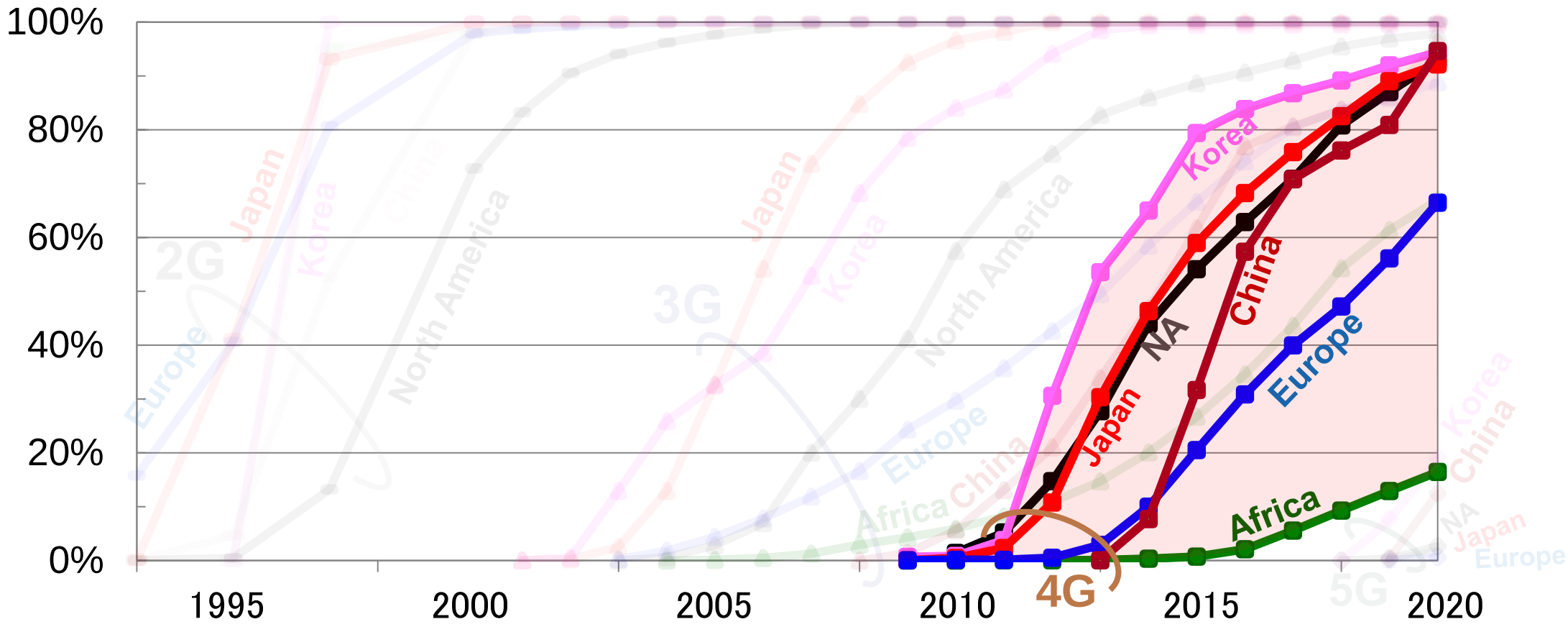
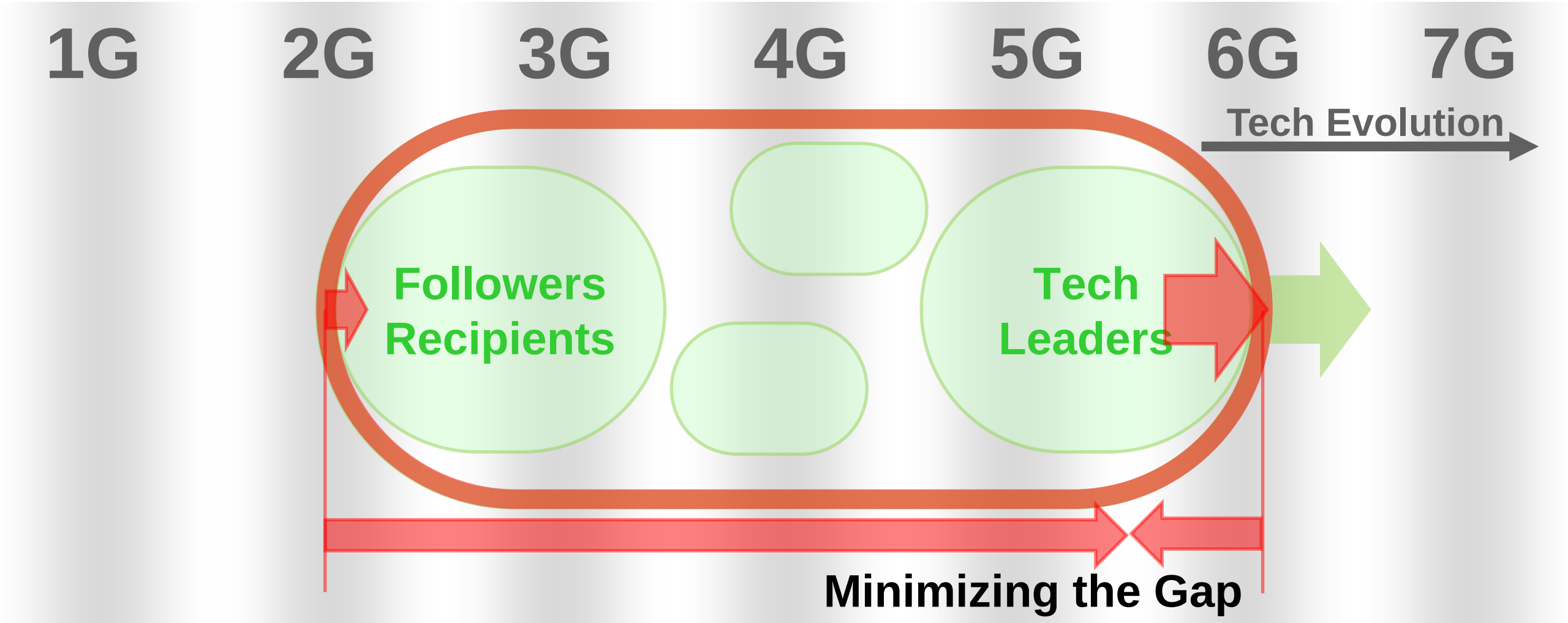


Standardization Gap



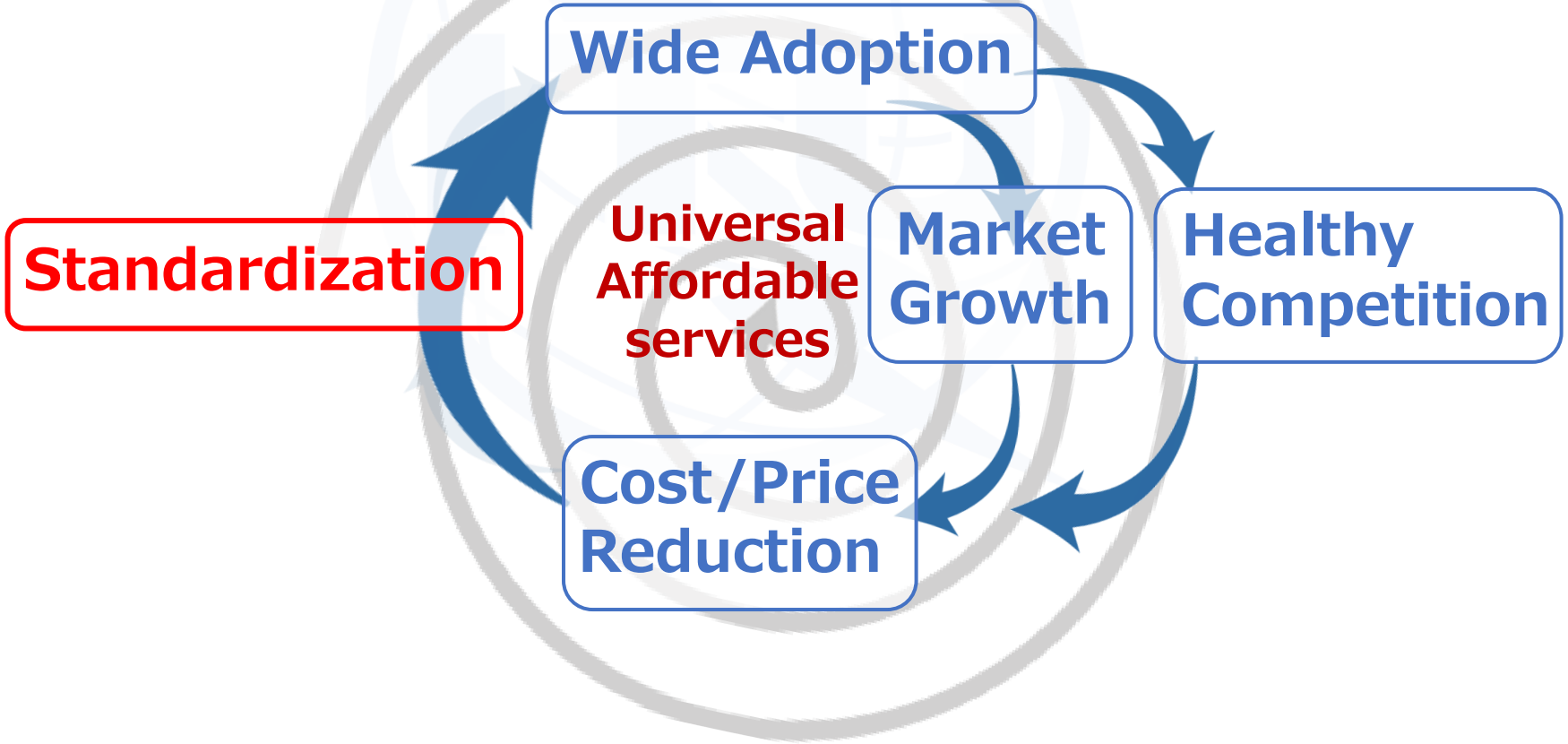
My Vision

Outreach worldwide

“Standards and technologies are meaningful only after people could use them. Enabling people around the world to benefit from technology – that’s what we do.”

Value of standardization

- Standardization becomes truly valuable and meaningful only when the standards are widely spread.



But How?

Strengthening Cooperation

*By **strengthening cooperation between multiple standardization bodies**.*

Collaboration leveraging each other's strengths is crucial. ITU's greatest advantage lies in its global reach.

To respond to rapid technological advancements and the expanding landscape of technical fields, we are required to leverage organizations with diverse roles and expertise to collaborate, rather than doing everything in a single organization.

Industry Engagement

*Through **industry engagement** and the **implementation of standards** by industry.*

The industry play a role in implementing the standards and contributing to technology diffusion. The industry engagement drives the development of implementable standards and their adoption in practice.

Bridging the Standardization Gap

*ITU-T **Bridging the Standardization Gap (BSG)** as essential tool for the dissemination of standards.*

Bringing the benefits of technology to the world by strengthening standard-making capabilities and assisting the application of standards in developing countries.

But How?

Strengthening Cooperation

*By **strengthening cooperation between multiple standardization bodies**.*

To respond to rapid technological advancements and the expanding landscape of technical fields, we are now in an era where organizations with diverse roles and expertise to collaborate, rather than doing everything in a single organization.

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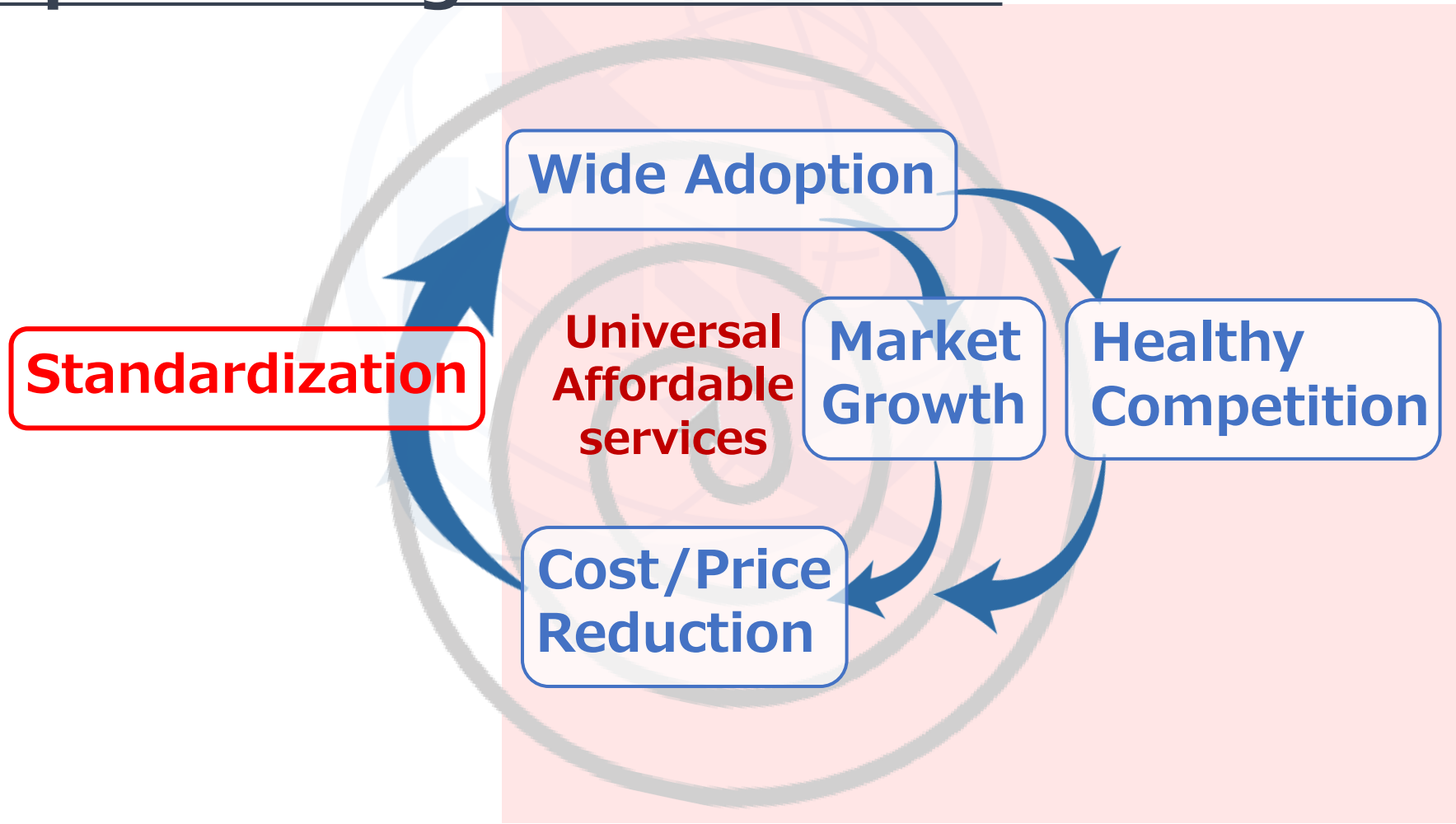
Value of standardization

- **Industry engagement is crucial for implementing the standards.**



ITU Journal Webinars

ITUWebinars

Disrupting NextG

Andrea J. Goldsmith
Princeton University, USA

31 October 2023
16:00 - 17:30 CET

presented by:

ITUJournal
Future and evolving technologies

itu.int/go/ITUJ-FET/webinars

ITU Journal Webinars

New WEBINAR SERIES with CTOs

6 June

The journey from 5G to 6G: Toward a well-being society

Naoki Tani
Executive Vice President and Chief Technology Officer, NTT DOCOMO

27 June

AI, machine learning RAN intelligent controller for 6G

Alex Jinsung Choi
Senior Vice President, Deutsche Telekom

4 July

Transformation in the 5G era

Alex Sinclair
Chief Technology Officer, GSMA

ITU Journal
Future and evolving technologies

ITU Journal Webinars

New WEBINAR SERIES with CTOs

Creating the foundation for 6G: Laying the groundwork for the network of the future

Nishant Batra
Nokia Bell Labs, USA

9 November 2023
19:30 - 20:30 CET

presented by:

ITU Journal
Future and evolving technologies

ITU-T CxO Meeting

CxO Roundtable, 5 December 2023

Dubai, UAE & online, 5 December 2023

CxO MEETING AND TELECOM REVIEW LEADERS' SUMMIT

CxO Meeting

This year's CxO meeting will be held on **December 5, 2023**.

This meeting is by invitation only and will precede the 17th edition of the Telecom Review Leaders' Summit.

More information can be found here.

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Re-envisioned BSG: Strategic Pillars

DEVELOPMENT

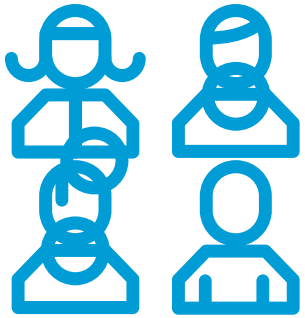
- Tools, Data Analytics, Indicators, Guidelines, Strategy, Solution & Survey
- BSG Trainings: Online & Hands-on + Executive Briefings
- Regional Groups of ITU-T Study Groups
- Fellowships & Interpretation
- National Standardization Secretariat (NSS)

- Strategic Events
- DFS Security Lab
- U4SSC
- E-waste
- C&I Lab
- Adoption of ITU-T Standards @ National Plans, Policies & Regulations

IMPLEMENTATION

Enablers → **Resources** | **Partnership** ← Enablers

What lies at the foundation



Open and Inclusive

*Promoting **diversity** by encouraging multi-stakeholder participation in standardization processes.*
Diverse members need to be involved, including developed/developing countries, regions, gender, large/small enterprises, etc.

Efficient, Effective and Transparent

*Implementing **effective organizational management** through efficient resource allocation in a **transparent** manner.*
Improve organizational performance, including setting priorities, reducing waste and improving processes.

My vision and goals as TSB Director

To achieve **universal meaningful connectivity** and **sustainable digital transformation** **through standardization.**

Outreach Worldwide

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Strengthening Cooperation

Industry Engagement

Bridging the Standardization Gap

Open and Inclusive

Efficient, Effective and Transparent

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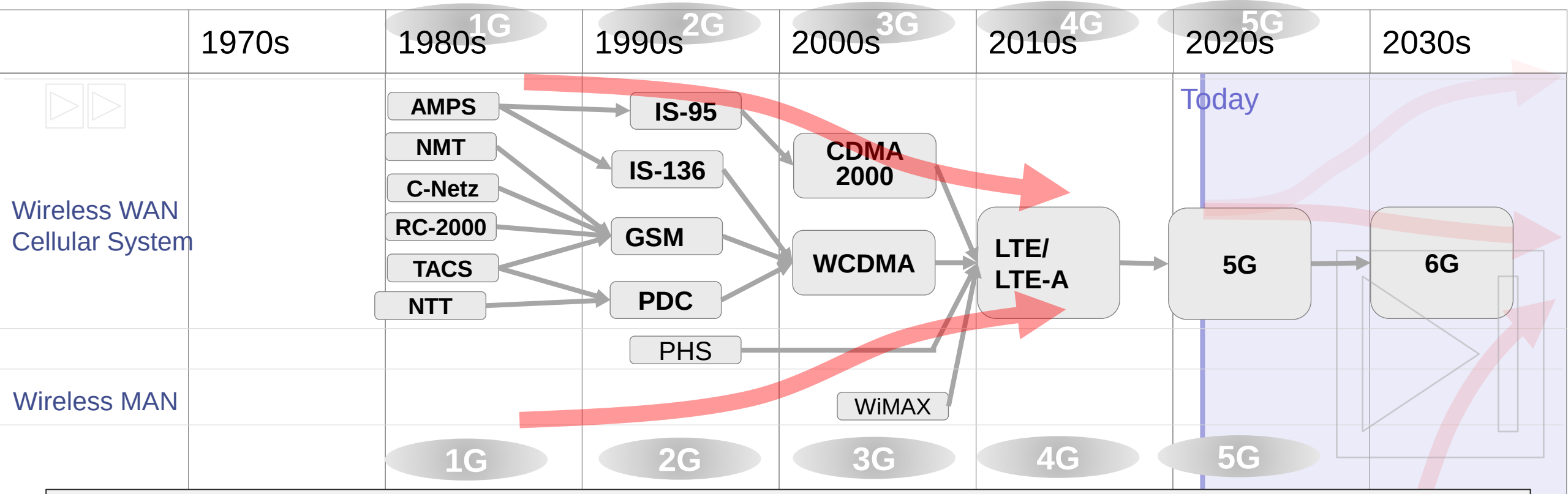

"Throughout its long history, telecom standardization has helped make people's lives more convenient and society more efficient."

- Global coverage of services
- Cost reduction by economies of scale and competition principle

More effort is needed to achieve a truly affordable and even better ecosystem.