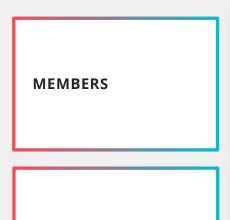


80 COMPANIES IN NGMN TODAY

GROWING; OPERATOR DRIVEN, PARTNERSHIP REFLECTS THE ENTIRE VALUE CHAIN





























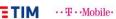


























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NOKIA O PreHCM Services Qualcom Radial

大唐电信科技产业集团



Deloitte.



ERICSSON

lenovo





◎ LG Electronics M∧VENIR























































STRATEGY



ROUTE TO DISAGGREGATION

Leading in the development of open, disaggregated, virtualised and cloud native solutions with a **focus on the E2E**Operating Model

GREEN FUTURE NETWORKS

Building sustainable & environmentally conscious **solutions**



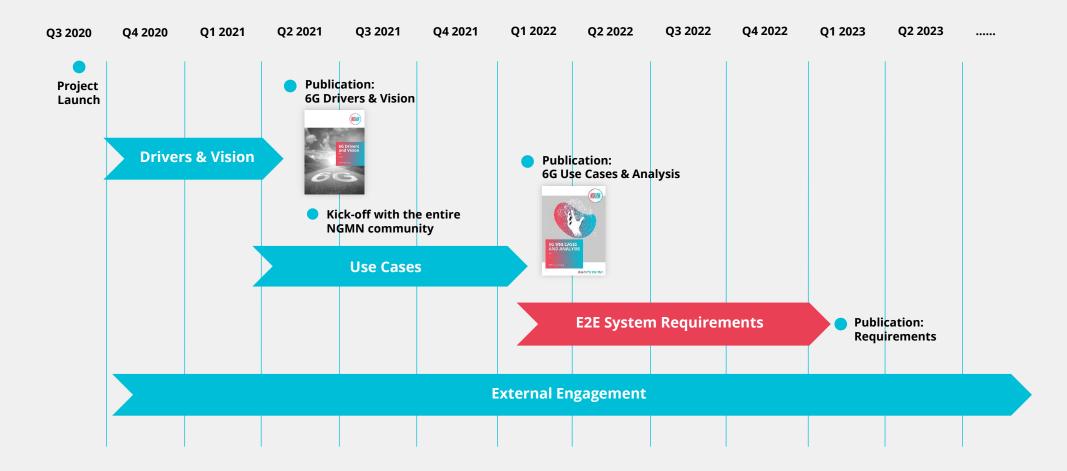
6G

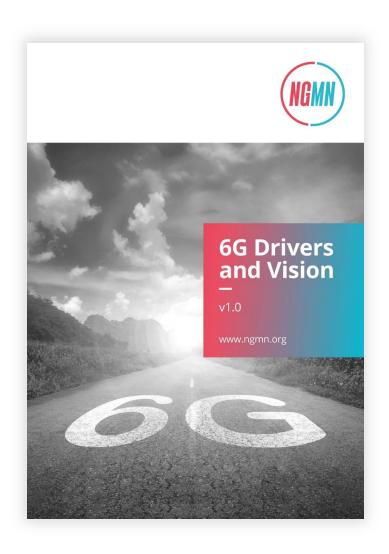
Emergence of 6G highlighting key trends across technology and societal requirements plus use cases and E2E requirements to address

NGMN'S ROAD FROM 4G TO 6G



6G PROJECT MILESTONES





INTRODUCTION TO NGMN'S FIRST 6G WHITE PAPER

(published in April 2021)

An Operator's view of 6G Drivers & Vision

Societal & Environmental Benefits

Expanded & Differentiated Services with Novel Experience

Operational Necessities To Create & Deliver Enhanced Value

A JOURNEY TOWARDS 6G

Increased Scope for the SDOs

To drive full ecosystem automation, enhance visibility, and improve efficiency, the SDOs need to take a **holistic end-to-end** view of the entire ecosystem, and not only its parts.

New Standards Evolution Paradigm

Reconsider the traditional notion of 'generational' change driven solely by radio and core.

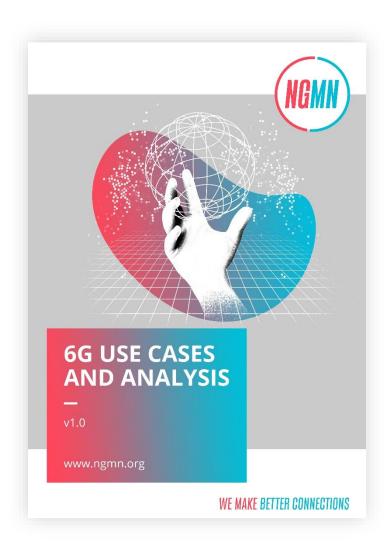
Unity and Integrity of Global Standards

Critical to **prevent standards duplication** which causes market delays and complexity, as well as standards divergence which could lead to **fragmentation**.

Differentiated Tech Evolution

Work must be undertaken to assess new technologies, but also the **market and value opportunity.**

Supply Chain Diversity & Security The industry must foster and encourage a **healthy and competitive** development to ensure a stable global supply chain without any major disruptions.



6G USE CASES AND ANALYSIS

(published in February 2022)

NGMN's view on 6G Use Cases

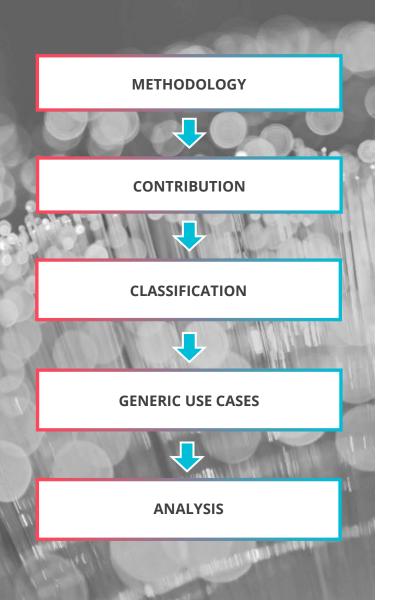
- To predict major trends in usage scenarios
- To steer the needs and requirements for future generational change
- To motivate the identification of differentiated opportunities for future capabilities



6G USE CASES AND ANALYSIS

Identification of 'families' based on contributions of use-cases

- Alignment with 6G Drivers & Vision
- Analysis to assess differentiation relative to fully featured 5G, applicability and feasibility



6G USE CASES UNIQUE APPROACH

- ~50 use cases contributed from Partners
- Classification based on the needs and application trends resulting in 4 classes and 14 generic use cases based on common key characteristics
- Assessment to understand viability and market opportunity and provide guidance on 6G design and requirements

NGMN 6G GENERIC USE CASES

ENHANCED HUMAN COMMUNICATION

XR immersive holographic telepresence communication

Multi-model communication for Teleoperation

Intelligent interaction: sharing of sensation, skills & thoughts

ENHANCED MACHINE COMMUNICATION

Robot Network Fabric

Interacting Cobots

ENABLING SERVICES

3D hyper-accurate positioning localization, and tracking

Interactive mapping, digital twins & virtual worlds

Automatic detection protection & inspection

Digital healthcare

Smart Industry

Trusted composition of services

NETWORK EVOLUTION

Trusted Native AI - AlaaS

Coverage expansion

Energy Efficiency



6G USE CASES ANALYSIS

- Alignment with Drivers
- Sustainability and Environmental impact
- Potential Technology components
- Applicability
- Deliverability
- Differentiation relative to 5G



PARTICIPATING COMPANIES IN NGMN's 6G PROJECT

>50 companies at this point in time

OPERATORS



































VENDORS

















































RESEARCH INSTITUTES



























KEY NGMN DOCUMENTS PUBLISHED RECENTLY





























Results of our Work-Programme:

Internationally recognised guidance for standardisation and development

https://www.ngmn.org/publications.html



THANK YOU

YOU ARE WELCOME TO JOIN US!

feifei.lou@ngmn.org

FURTHER INFORMATION SOURCES

 Additional information about our focus topics and actual projects: <u>here</u>

 NGMN 6G Drivers and Vision White Paper: download here

 NGMN 6G Use Cases and Analysis White Paper download here

Access to all <u>NGMN publications</u>