



NEXT GENERATION MOBILE NETWORKS ALLIANCE

www.ngmn.org

**WE MAKE BETTER
CONNECTIONS**

THE NEW NGMN



NGMN's TRANSFORMATION

Buidling upon NGMN's strengths

Operator driven with focus on requirements level

Technology – and Ecosystem Changes required a Change

NGMN revised Strategy and Culture, Way of Work

New Strategy

New Strategic Focus Topics address the industries' main challenges

New Brand

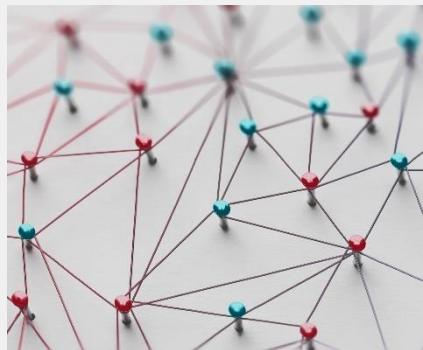
New Brand in line with new strategy, exclusively unveiled today



NEW NGMN STRATEGY

NEW STRATEGY

Alongside projects supporting 5G's full implementation, the focus of NGMN's Work Programme in 2021 and beyond is on three main equally important pillars with different time horizons



ROUTE TO DISAGGREGATION



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



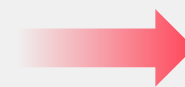
GREEN FUTURE NETWORKS



Building sustainable & environmentally conscious solutions



6G

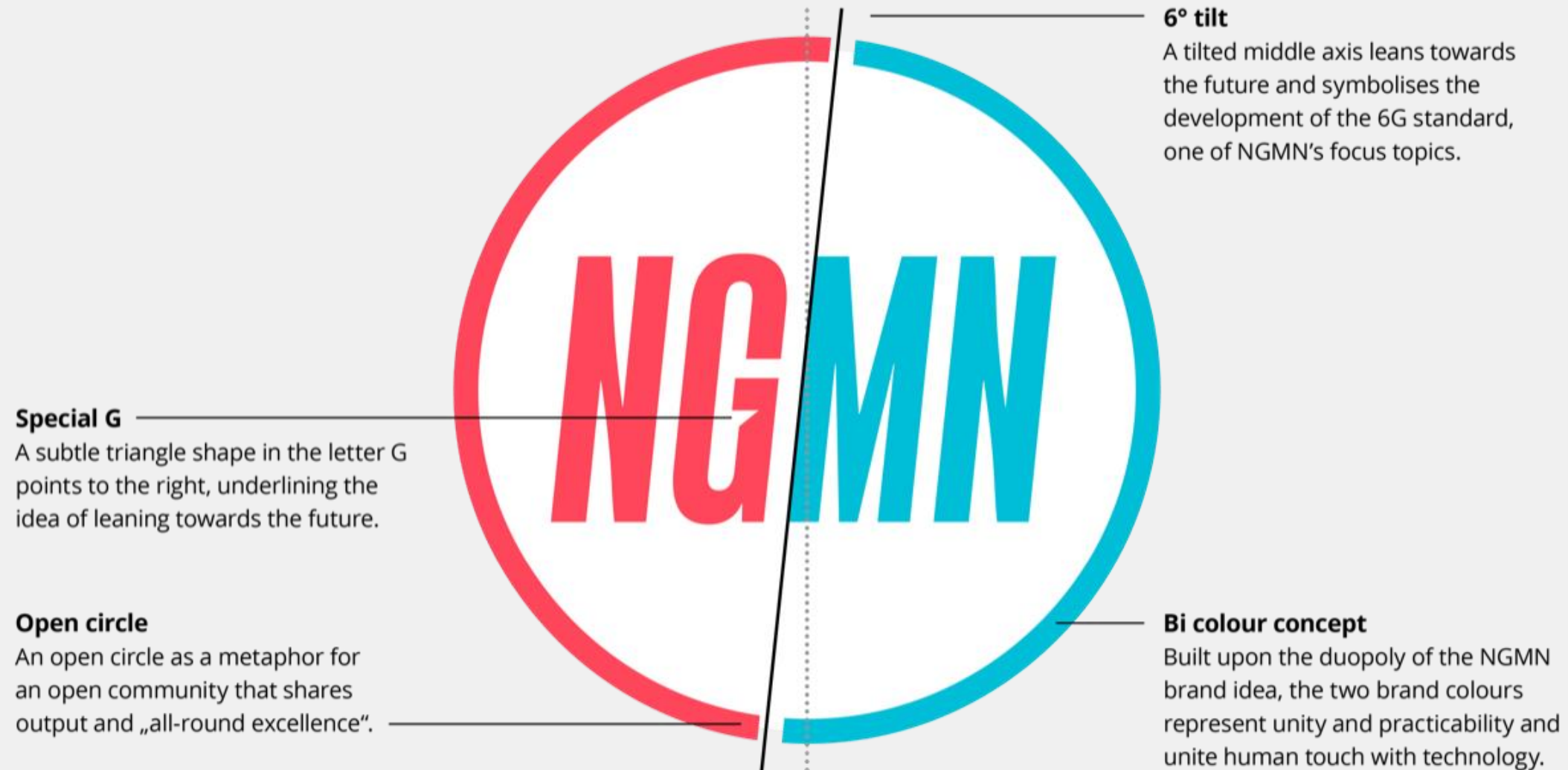


Emergence of 6G highlighting **key trends across technology and societal requirements plus use cases** to address

NEW NGMN BRAND



OUR NEW BRAND



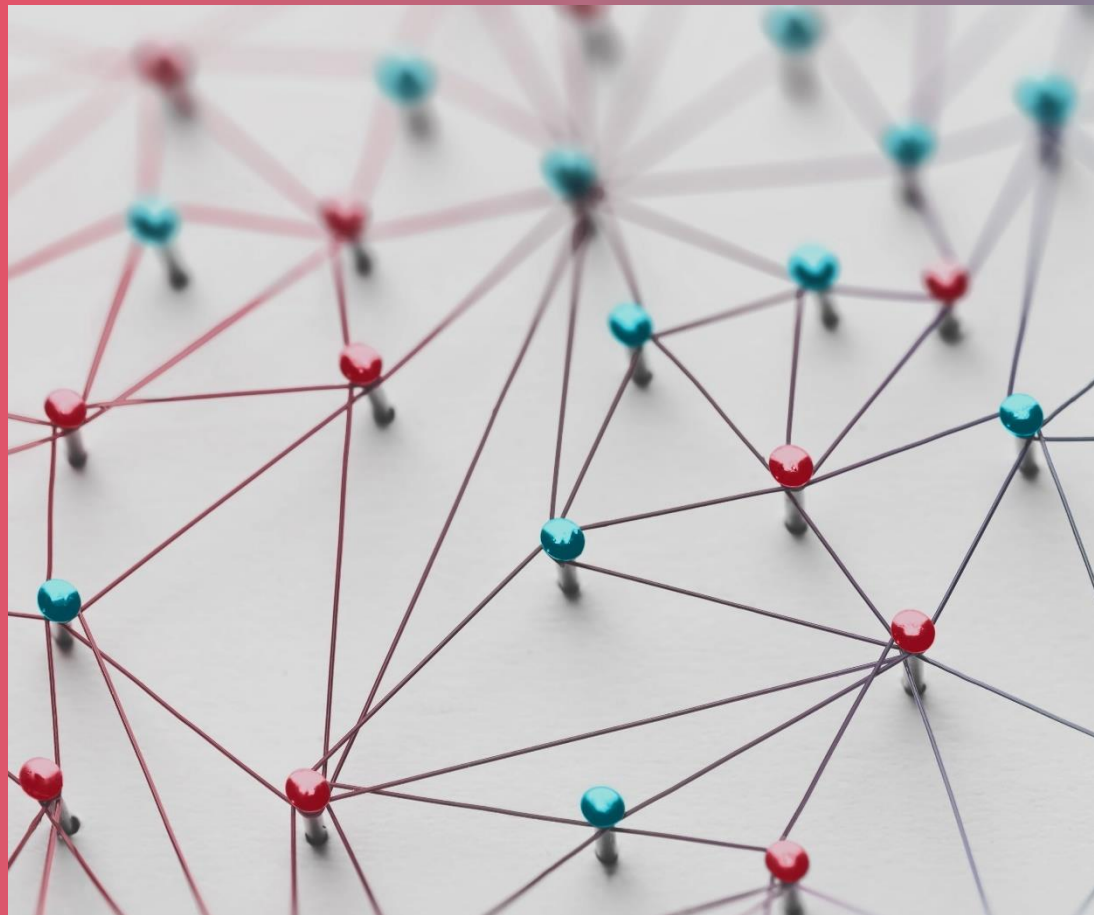
OUR NEW SLOGAN

Dips into the creative realm of wordplay

**WE MAKE BETTER
CONNECTIONS**

1. Better human networking.
2. Mobile networks enabling better services, better solutions, better user experience, better, greener connections.
3. By uniting the brains, hands and hearts of innovation, we increase our capability to connect the right dots, enabling better conclusions.

ROUTE TO DISAGGREGATION



**OPERATING
DISAGGREGATED
NETWORKS**



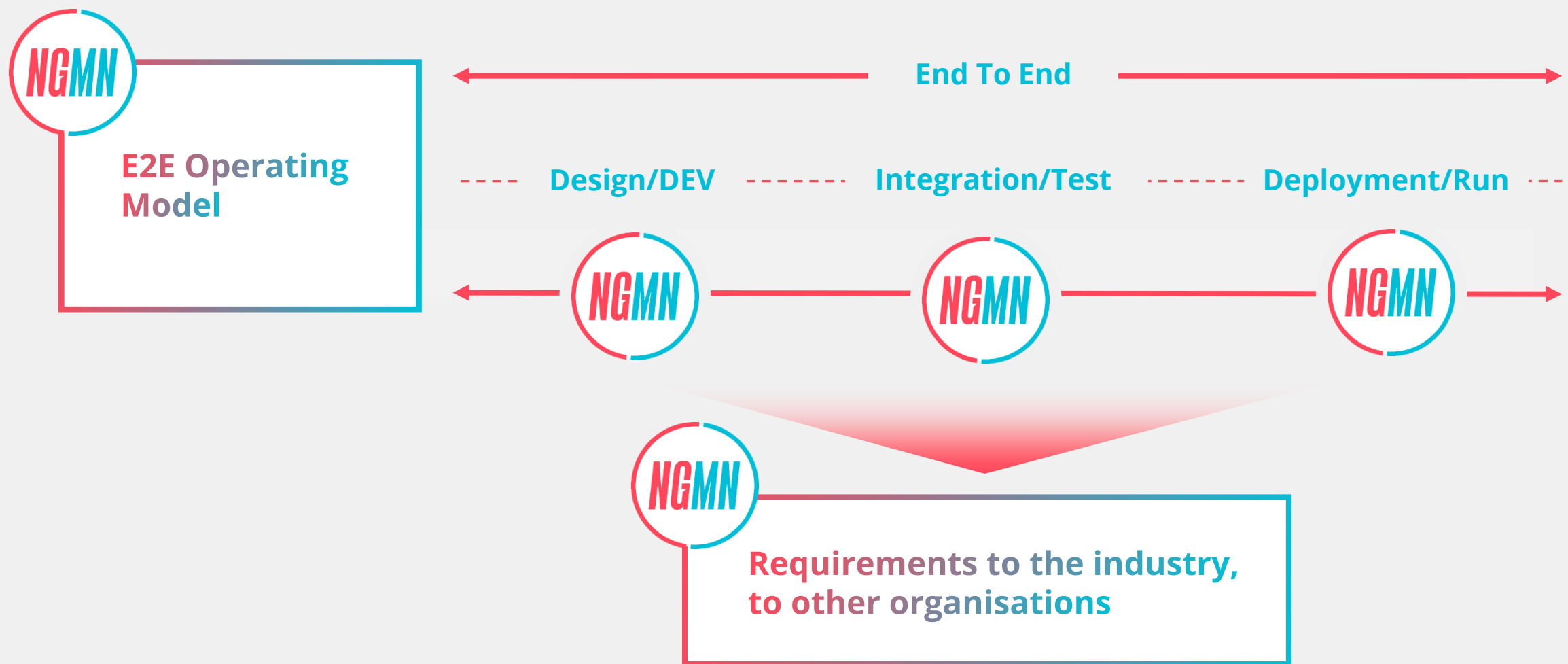
DISAGGREGATION IS A BURNING TOPIC FOR OPERATORS



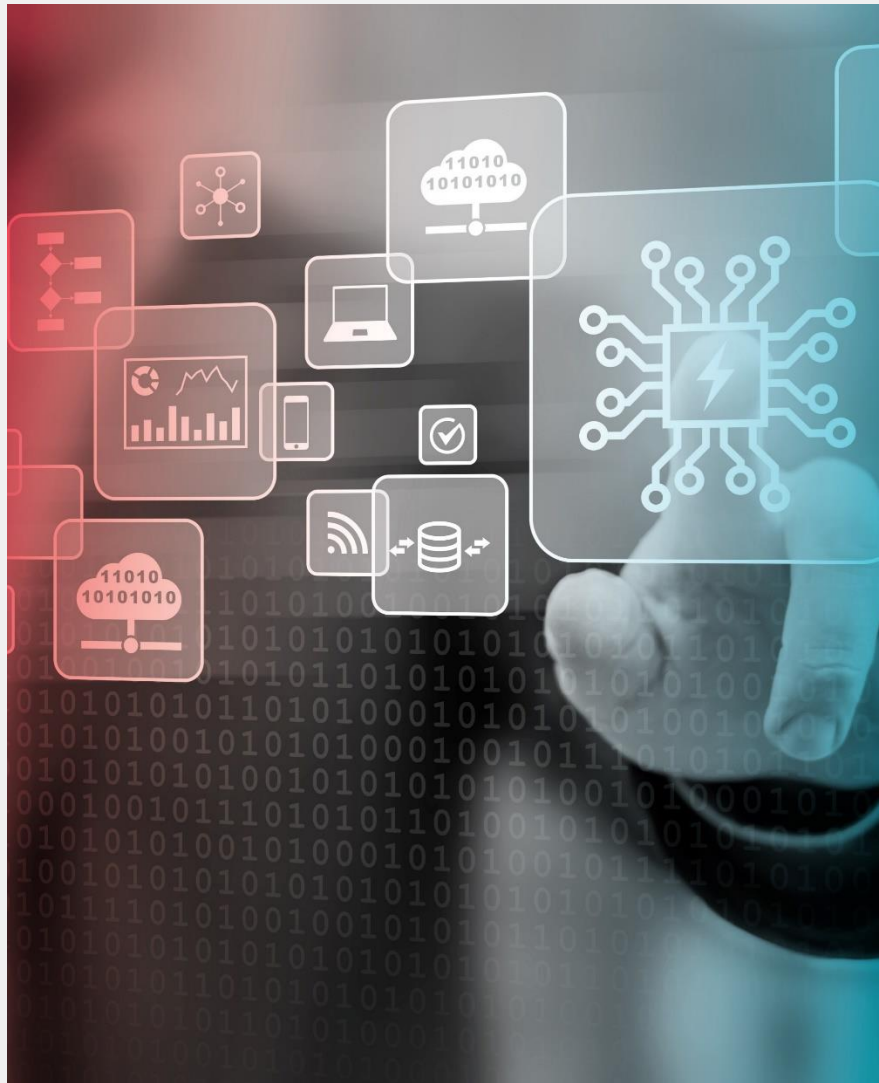
- More deployments are being observed
- Operators have different starting points, challenges and experiences
- Currently 12 NGMN MNOs collaborating in the pre-competitive area
- NGMN vendors and research institutions to contribute soon
- Project co-leads with global coverage and regional representation covering Americas, Asia and Europe

E2E OPERATING MODEL BY NGMN

The End-To-End Operating Model for disaggregated networks was not covered yet by other organisations
NGMN is well positioned to add value in this area



OPERATING DISAGGREGATED NETWORKS (PROJECT ODIN)



1. Context, current challenges and needs observed by operators
2. Industry status and roadmap, including foreseen technical- and tool evolutions
3. Target picture provided by Network Disaggregation
4. Relationship with specific industry verticals
5. Operating Model(s) options, their pros/cons, main decision criteria and blueprints

SUSTAINABILITY



**GREEN FUTURE
NETWORKS**



PARTICIPATING NGMN COMPANIES

24 companies at this point in time



Operators



Mobile Technology Vendors and Service Providers



Research Institutes



GREEN FUTURE NETWORKS PROJECT AT A GLANCE

Four deliverables to be published in 2021



Sustainability Challenges
and Initiatives in Mobile
Networks



Network equipment
eco-design and end to end
service footprint



Network energy
efficiency



Metering

NGMN URGES ALL ICT COMPANIES TO

Align

their climate goals with a
1.5°C trajectory

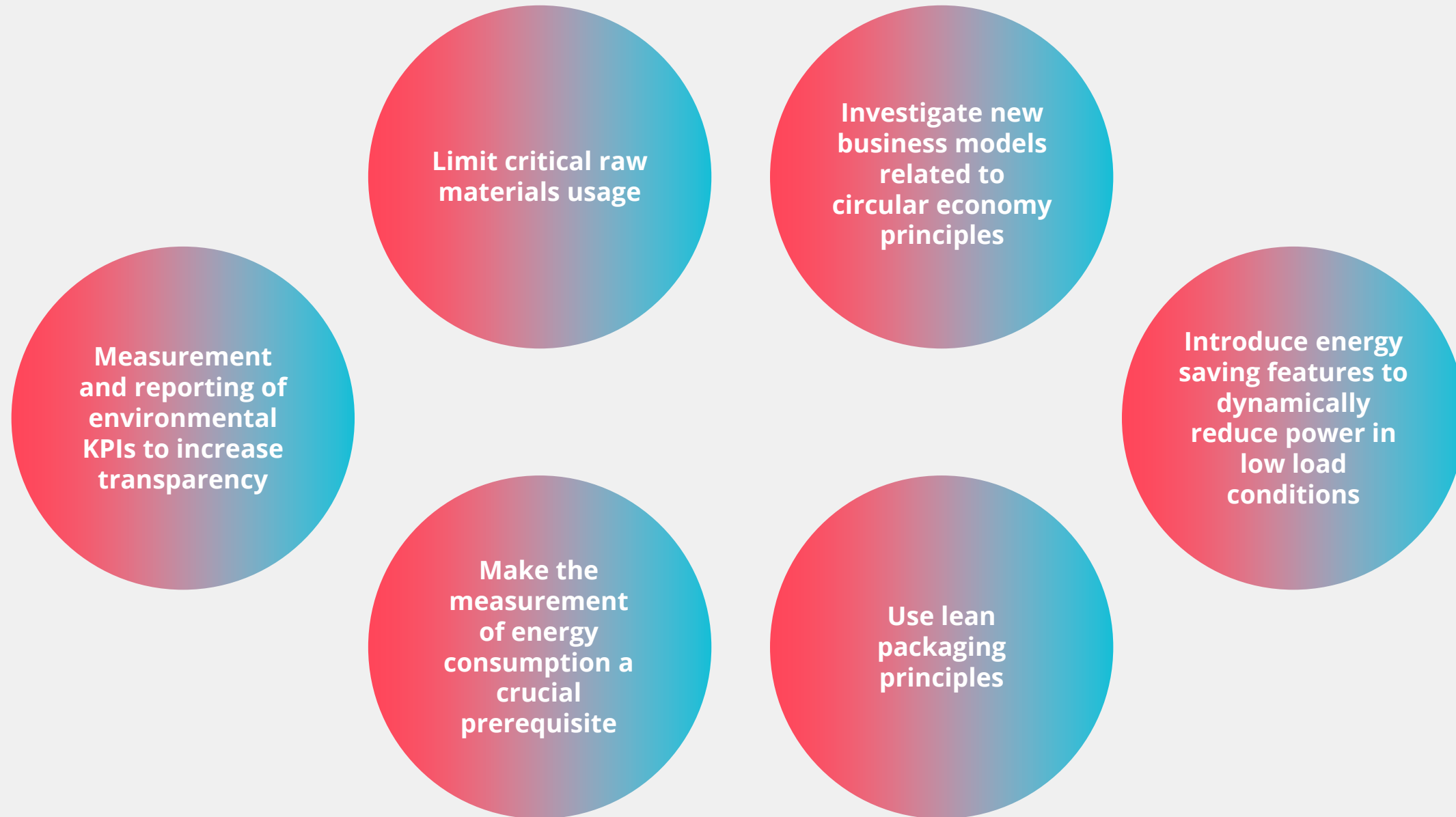
Increase

the share of renewable
energy usage to ultimately
become carbon neutral

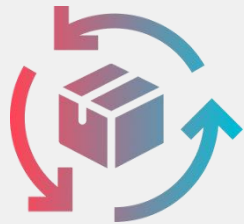
Follow

eco design principles e.g.
by minimizing the use of
critical materials

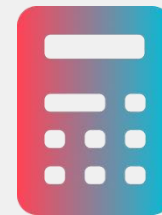
NGMN RECOMMENDATIONS



OUTLOOK INTO 2022



Further work on critical materials



Development of End-to-end service footprint calculation method



Compendium of new business models



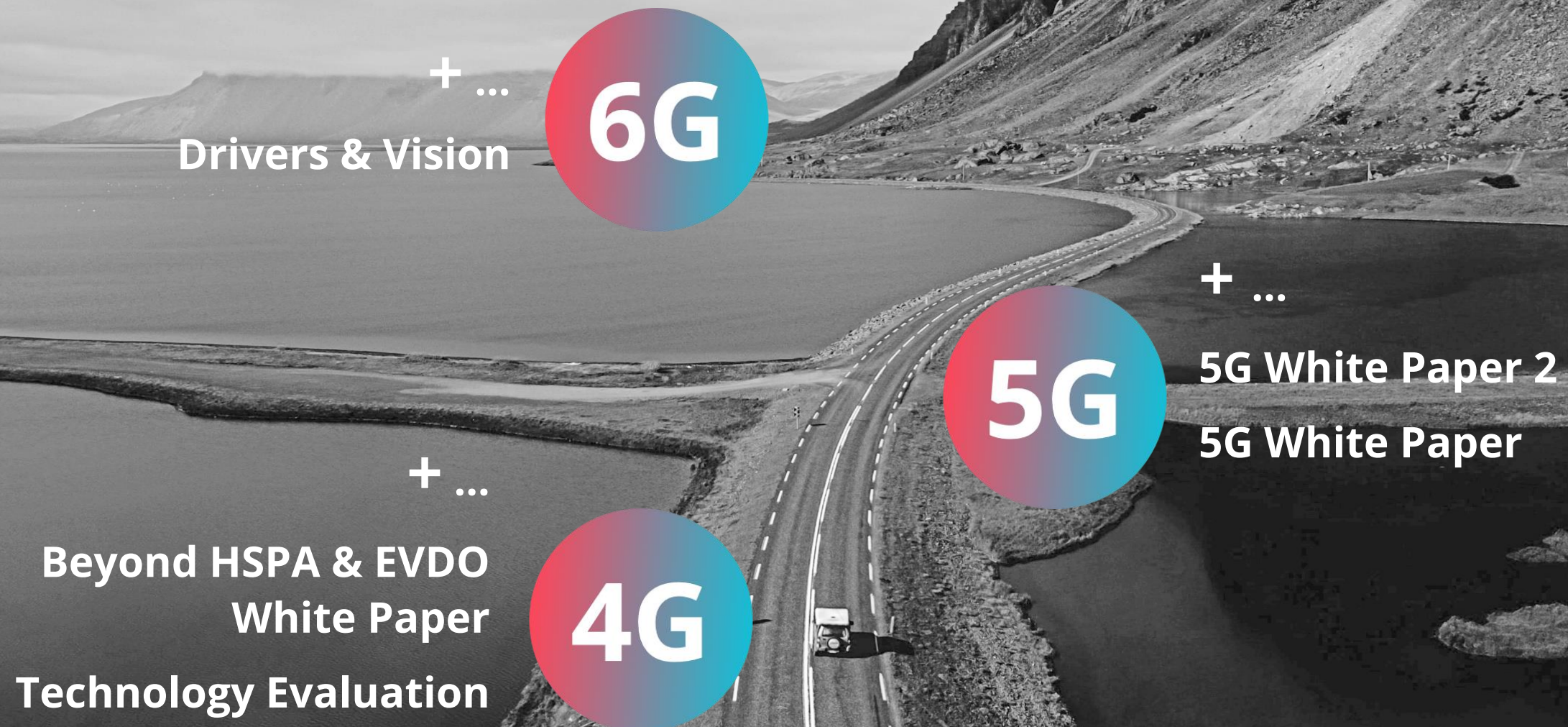
Energy consumption of disaggregated networks

6G

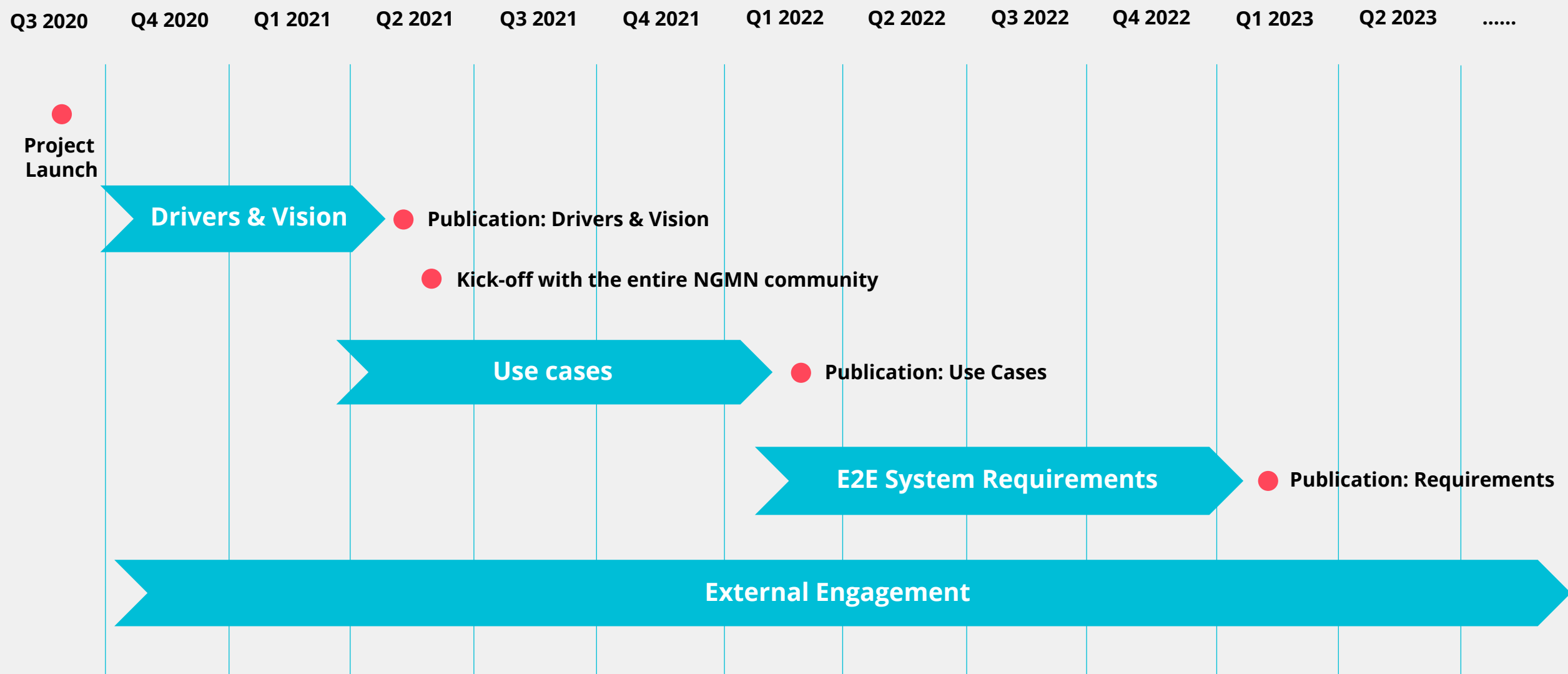


**DRIVERS AND VISION,
USE CASES**

NGMN ROAD FROM 4G TO 6G



MAIN 6G PROJECT MILESTONES



INTRODUCTION TO NGMN'S FIRST 6G WHITE PAPER



Scope

The paper **addresses** the **Drivers** that provide the direction to **6G**, and a **Vision** towards delivery

It does not assess or predict use cases or technology components

It represents the **Operator View**

MOTIVATIONS AND DRIVERS FOR 6G

Societal & Environmental Benefits

- The need to address **societal objectives** at large, as also expressed in the United Nations (UN) Sustainable Development Goals (**SDG**)

Expanded & Differentiated Services with Novel Experience

- The need to satisfy **customer requirements** by offering **new services and capabilities**, supported by evolving technologies in a **cost-effective** manner

Operational Necessities To Create & Deliver Enhanced Value

- The need to make the planning, deployment, operations, management, and performance of the mobile operator's networks increasingly **more efficient**

INTRODUCTION: 6G USE CASES



- **Identification** of 'families' based on contributions of use-cases
- **Alignment** with 6G Drivers & Vision
- Analysis to assess **Differentiation** relative to fully featured 5G and market opportunity

PARTICIPATING NGMN COMPANIES

35 companies at this point in time



Operators



Vendors



Research Institutes





THANK YOU!

In case of further questions please contact
office@ngmn.org