

NGMN PRESS & INDUSTRY BRIEFING

@MWC 2024

Arash Ashouriha, Deutsche Telekom
Anita Döhler, NGMN

Carlos Fernandes, Deutsche Telekom
Jérôme Birot, TELUS
Laurent Leboucher, Orange
Luke Ibbetson, Vodafone
Narothing Saxena, UScellular
Takki Yu, SK Telecom
Yuhong Huang, China Mobile



WE MAKE BETTER CONNECTIONS



AGENDA

1. NGMN Strategy update
2. NGMN Strategic Focus Topics
3. Industry Conference and Exhibition
4. NGMN Operator Views:
 - Cloud Native Manifesto
 - 6G Position Statement
5. Q&A

NGMN's MISSION AND STRATEGY

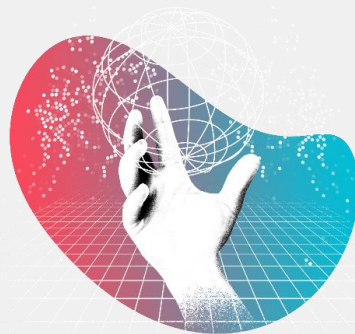
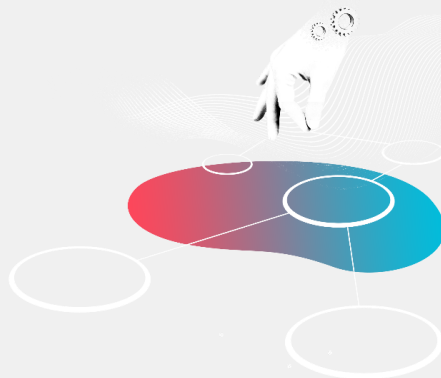
NGMN's strengths

- Operator driven with focus on requirements level
- Global membership reflecting value chain
- Strategic Focus Topics address the industry's main challenges



STRATEGY

Alongside with projects supporting 5G's full implementation, the focus of NGMN's Work Programme since 2021 is on three Strategic Focus Topics 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 and environmentally conscious solutions

6G

Emergence of 6G highlighting key trends across technology and societal requirements plus use cases, requirements and design considerations

OVER 80 COMPANIES SHAPING THE FUTURE OF THE INDUSTRY

ASTRI EURECOM Fraunhofer 工業技術研究院 Institute of Technology Research Institute 財団法人日本工業管理協会 JOHNS HOPKINS UNIVERSITY KINGS COLLEGE LONDON NANYANG TECHNOLOGICAL UNIVERSITY 國立清華大學

SINTEC 荷蘭科學研究中心 TECHNISCHE UNIVERSITÄT DRESDEN TNO innovation for life UNIVERSITY OF TORONTO

COMPANIES JOINED IN 2023

NGMN IC&E 24

10 - 12 SEPTEMBER 2024 @ BMW WELT, MUNICH/GERMANY

- A highly recognized biennial global industry event
- Spotlight on NGMN's Strategic Focus Topics
- Platform for unique networking opportunities with global industry leaders from operators, telco & IT vendors, academia
- Conference and exhibition demonstrating state of the art concepts, key trends, innovations and challenges shaping the mobile landscape
- 300+ top management level participants
- Premium facilities @ BMW Welt
- Valuable marketing opportunities



GREEN FUTURE NETWORKS



CORE TOPICS GREEN FUTURE NETWORKS – GFN



ENERGY



ENVIRONMENT



**KPIs FOR GREEN FUTURE
NETWORKS**

RECENT GFN PUBLICATIONS

Oct 2023

Network Energy
Efficiency Phase 2

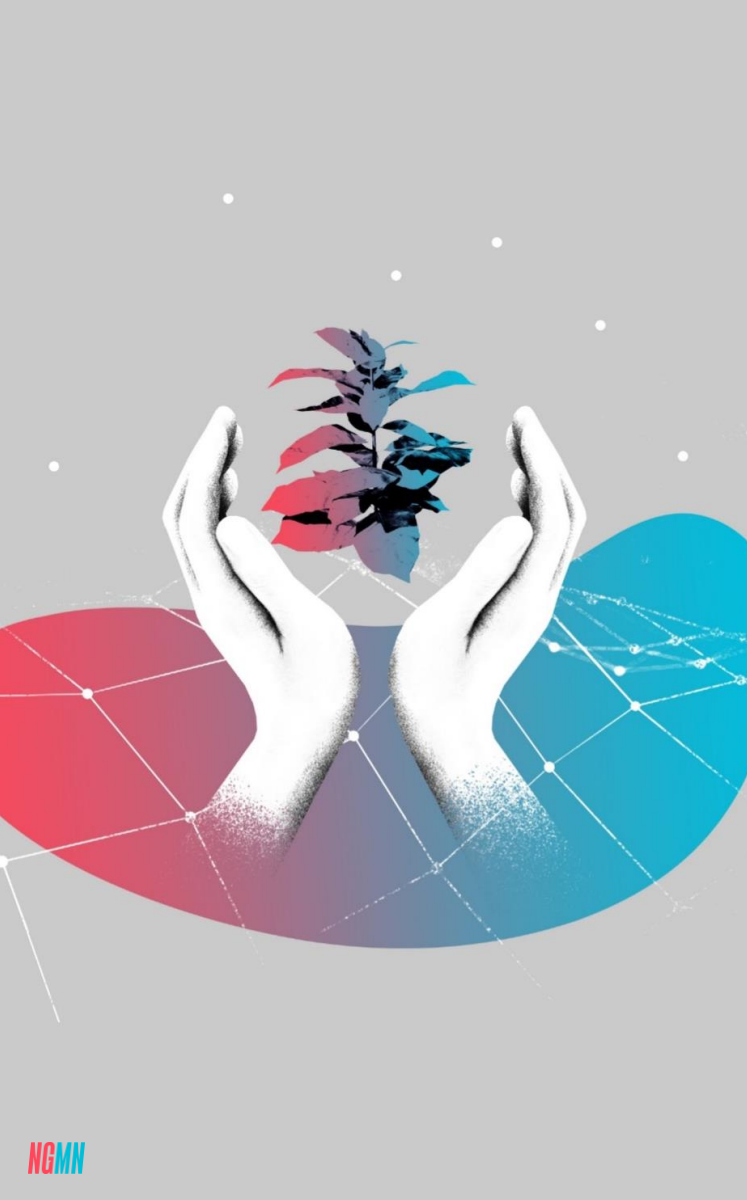
Dec 2023

Network Energy
Efficiency Phase 3A

Jan 2024

Reducing Environmental
Impact

GFN IN 2024

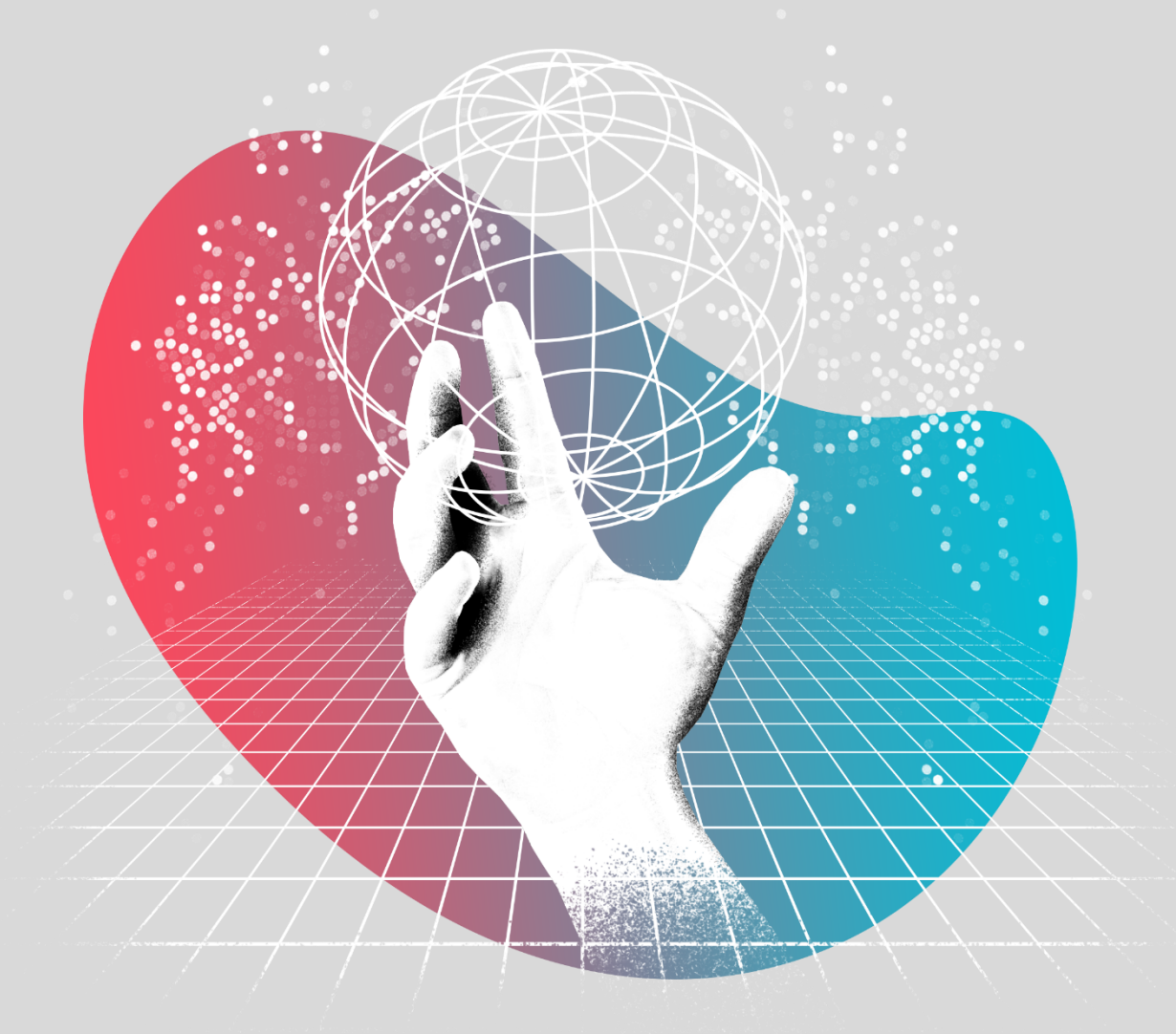


Telco Circular Economy

Metering in Cloud / Disaggregated Networks

Network Energy Efficiency

6G



6G PUBLICATIONS

2021

6G Drivers & Vision

2022

6G Use Cases
and Analysis

2023

6G Position Statement –
An Operator View

6G Trustworthiness
Considerations

6G Requirements and Design
Considerations

2024

ITU-R Framework for
IMT-2030 Review and
Future Direction

ROUTE TO DISAGGREGATION

OPERATING DISAGGREGATED NETWORKS (ODiN)

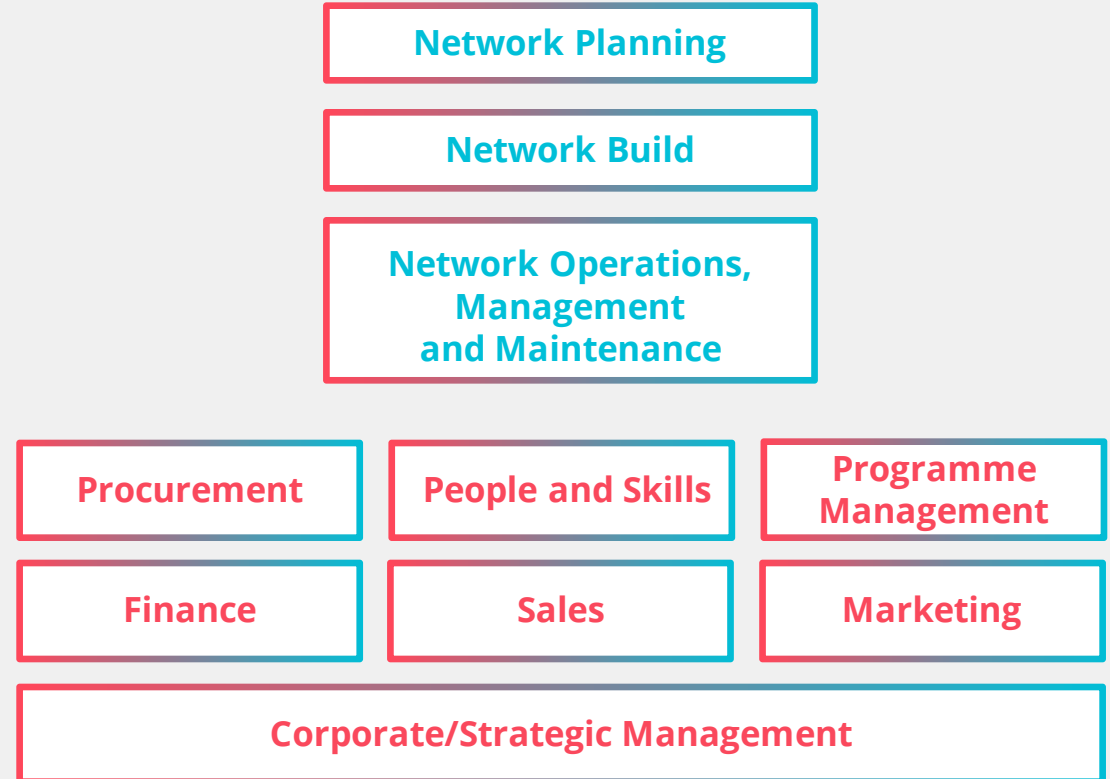


WHY WE NEED OPERATING MODELS

Complexity

- Networks and IT
- Organisation and people
- Range and scope of suppliers

Operating models reduce complexity
by defining the right 'target' organisation
to match the technology and operations
roadmap



ODiN PUBLICATIONS

2021

ODiN -Operating
Disaggregated
Networks V1.0

2022

Operating
Disaggregated
Networks V2.0

2023

Cloud Native
Manifesto –
An Operator View

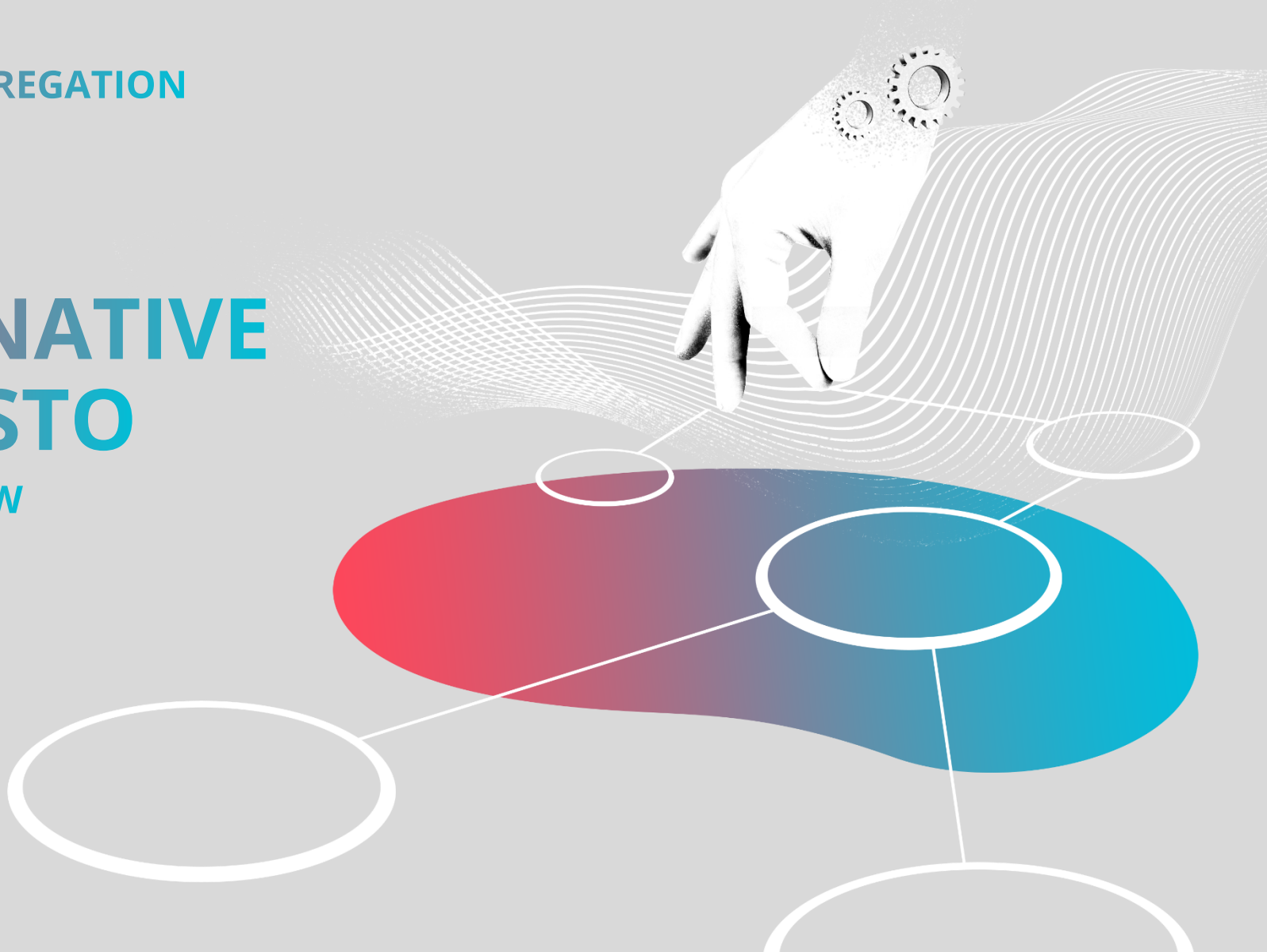
2024

Operating Model
Blueprints –
planned in Q3-2024

ROUTE TO DISAGGREGATION

CLOUD NATIVE MANIFESTO

AN OPERATOR VIEW



CLOUD NATIVE MANIFESTO

PUBLISHED SEPTEMBER 2023



1. Decoupled infrastructure and application lifecycles over vertical monoliths
2. 'API first' over manual provisioning
3. Declarative and intent-based automation
4. GitOps principles
5. Unified Kubernetes (or the like) resource consumption patterns
6. Unified Kubernetes (or the like) closed-loop reconciliation patterns
7. Interoperability by well-defined certification processes

Open. Interoperable. Highly scalable.

6G POSITION STATEMENT

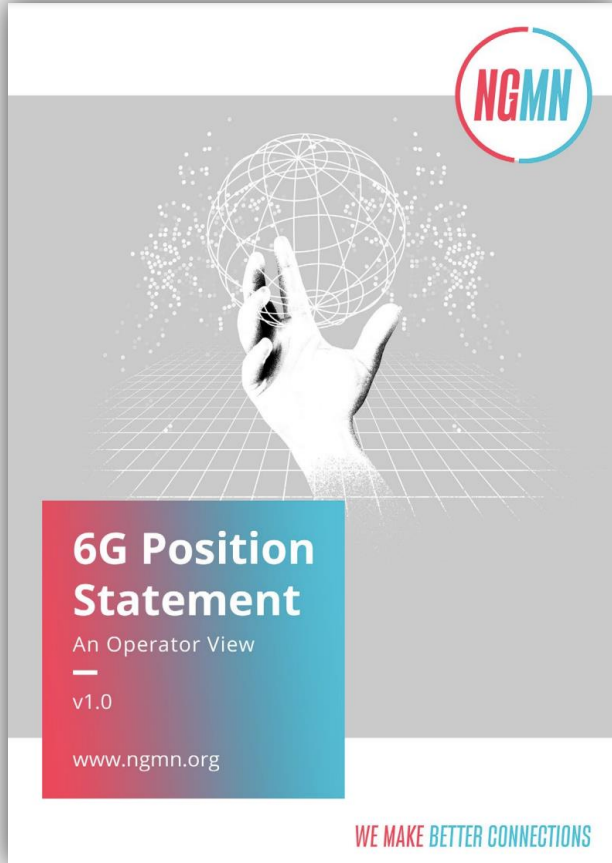
AN OPERATOR VIEW



6G POSITION STATEMENT - AN OPERATOR VIEW

PUBLISHED SEPTEMBER 2023

- NGMN Board taking the lead by highlighting key 6G challenges and requirements to the industry
- Enabling flexible strategic approaches to align with end user demands and operational priorities
- Challenging the traditional way to launching new technology generations



6G POSITION STATEMENT: AN OPERATOR VIEW

KEY MESSAGES

1

Overarching Statement

6G is the graceful evolution of communication networks

3

Operational Priorities

Network simplification, absolute energy reduction, automated and proactive operations

2

6G provides opportunities to support **innovations and new services**

4

Spectrum identifies existing IMT spectrum as essential and calls for 6-15GHz to be licensed for IMT

5

Guiding Principles

- Global standards
- No intrinsic need for hardware refresh
- Software upgrade to 6G
- No degraded performance for 5G
- Access across mobile, fixed and NTN
- Backwards compatibility
- Robust resilience

6G STRATEGIES



*WE MAKE BETTER
CONNECTIONS*



Scan for Press Kit

Q&A

