

5GDNA Overview

September, 29th, 2020

Jason Dai

President of 5GDNA



5G Deterministic Network, keystone to industry digitalization

Vision

As a platform for the cooperation and promotion of 5G deterministic networks, it focuses on gathering resources from all parties in the industry, and is committed to 5G industry insights, 5G deterministic network requirements and architecture, products, solutions, and application promotion, in order to promote the prosperity of the 5G industry ecosystem

Promote industry consensus

- Reaches consensus through Summit/webinar
- Build consensus through whitepaper

Collect vertical requirements

- 100+ partners covering various verticals
- SDO cooperation

Accelerate 5GDN deployment

- Industry reference projects
- 5GDN+vertical replicable solution

3 Key tasks

Promote the consensus of “5G deterministic network”

Summit/
webinar



Jun 2019 Shanghai, 1st summit,
by 30+ members



Sept 2019 Shanghai, 5GDNA whole
members' summit, by 60+ members



2019-2020 working group
meetings/webinars

White paper

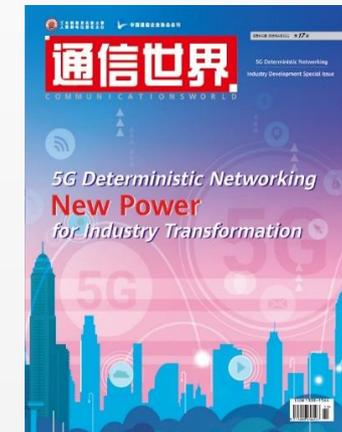


Feb 2020 5GDN white paper
Summarize 3D network requirements

3D network: Differentiated, Dedicated, DIY



Aug 2020 5GDN+energy,
5GDN+multi-media white paper



Oct 2020 Annual
special edition

5G DNA
Deterministic Networking Alliance
确定性网络产业联盟

Develop key industry partners and collect vertical requirements

Collect vertical requirements from 100+ members

Energy

国家电网 STATE GRID, 全球能源互联网研究院有限公司 GLOBAL ENERGY INTERCONNECTED RESEARCH INSTITUTE CO.,LTD., 中国南方电网 CHINA SOUTHERN POWER GRID, 国网江苏电科院 STATE GRID JIANGSU ELECTRIC POWER RESEARCH INSTITUTE, NARI 国电南瑞科技股份有限公司 NARI TECHNOLOGY CO.,LTD., 四方 SIFANG

Manufacturing

Haier 海尔, SANY 三一重工, 汇萃视觉 HUIHUI VISUAL, TOCCEL 拓盛, CCIACIII

Multi-Media

CSM 体奥动力 China Sports Media, 网宿科技 WANGSU TECHNOLOGY, LETINVR 兰亭数字, 海马云 HAIMAYUN, 深圳市增强现实技术应用协会 Shenzhen Augmented Reality Technology Application Association

Smart Transportation

经纬恒润 JINGWEI HIRAIN, NAVINFO 四维图新, BUCA 数字认证, 北纬科技 BEWINNER, Guangzhou Public Transport 广州公交

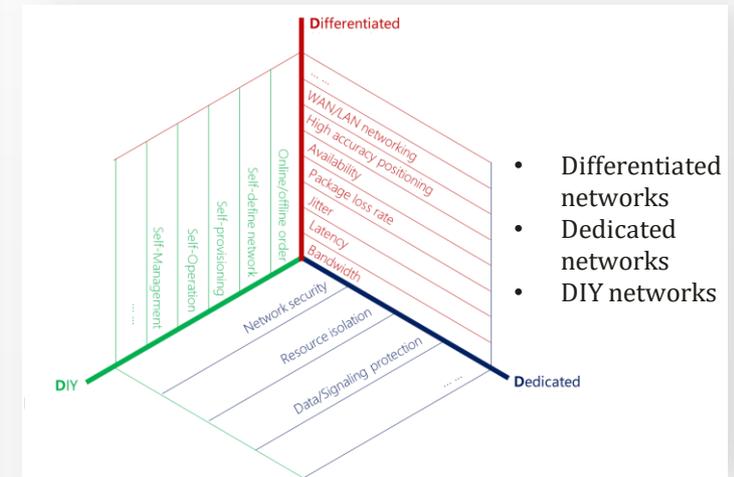
Healthcare

UNITED 联影 IMAGING, 深睿医疗 deepwise, 大医直播, 大陆智源 DALU ROBOTECH, 汇医慧影 HUIYI HUIYING, 中日友好医院 National remote healthcare center

Operators, ICT providers, universities, research institution ...

What is the most important 5GDN capabilities ?		
Network capability	Percentage	
E2E latency		41%
E2E jitter		34%
Self-configuration and self-management		29%
Network bandwidth		27%
5G accurate positioning		27%
Network security、certification		27%
Monitored and guaranteed SLA		24%
Network resource isolation		20%
5G LAN		12%
others (described by word)		10%

Source: 5GDNA members' survey



Source: 5GDN industry white paper

Significant progress of 5GDN development in industry reference projects

CSM 5G smart stadium project

- Define the alliance
WG subject: 5G smart stadium

August, 2019



- Promote the scenario of 5G smart stadium;
Call for industry input

September, 2019



- Verify 5G smart stadium solution, and the 1st super scene app in joint lab

November, 2019



- Joint Pilot in LuNeng Taishan, by 5GDNA members

June, 2020



- Launch white paper, build 5GDN+stadium baseline solution

August, 2020



5G+Smart Grid project

- Define the alliance
WG subject: SGCC Qingdao & CSG PoC

June, 2019



- Promote 5G+Smart Grid; GSMA global case study project, and Layer123 Best Innovative Commercial Case in Automation

March, 2020



- Support business model design: 1st commercial contract of SGCC Qingdao

June, 2020

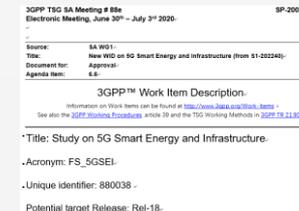
- Joint 5G+ Smart Grid Lab and incubate several industrial terminals with embedded 5G module

July, 2020



- 5G+Smart Grid charter in 3GPP R18 by 5GDNA member: CTC, CSG, CEPRI, CUC, Huawei, etc.

August, 2020



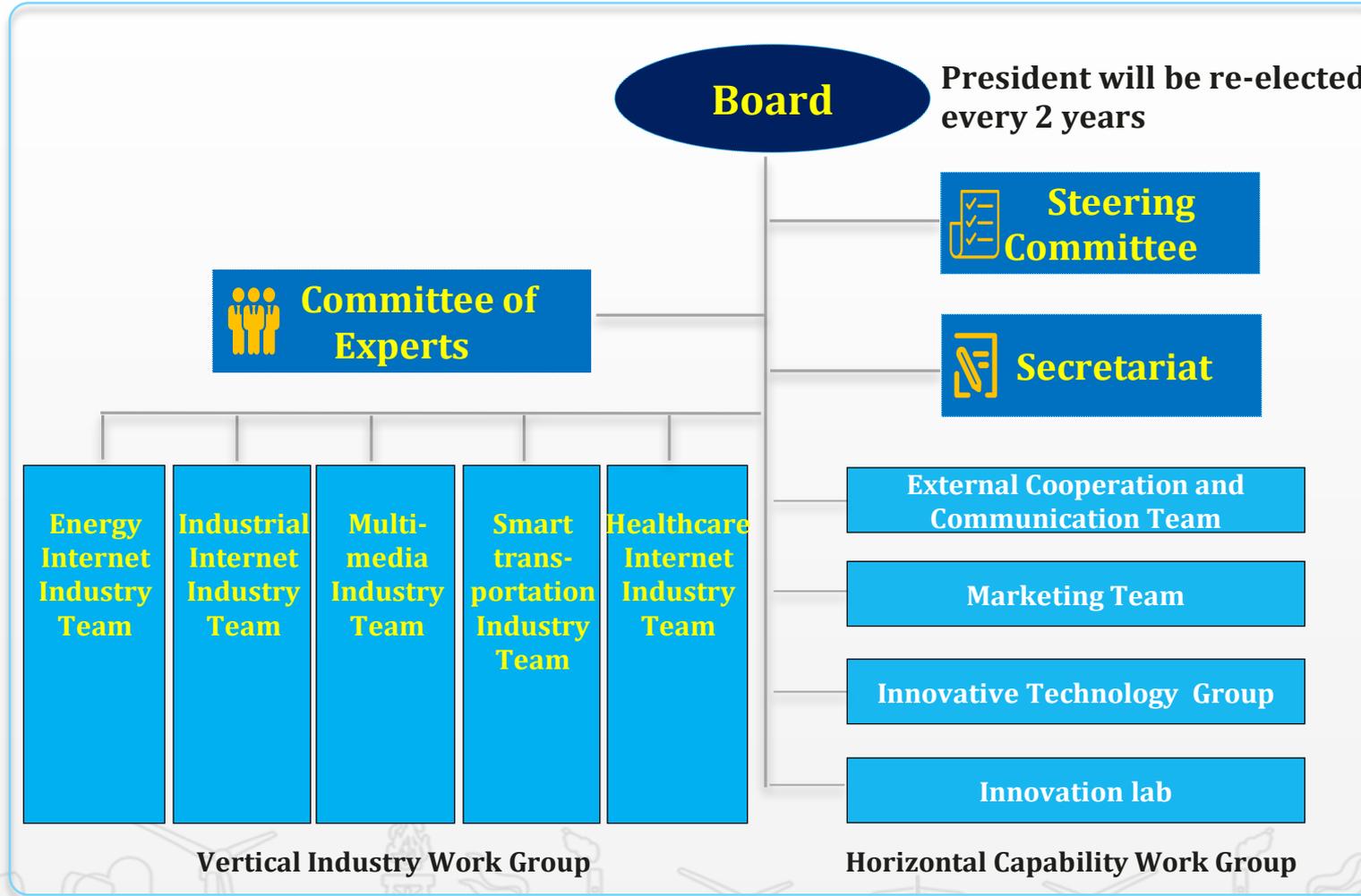
- 5GDN@Smart Grid WP: Requirements, Technologies, and Practices

September, 2020



CSM: China sport media; SGCC: State grid company of China; CSG: China southern power grid; WG: working group
CTC: China telecom; CEPRI: China Electric Power Research Institute; CUC: China Unicom

Alliance organization structure and responsibilities



Responsibilities

1. Board: Alliance strategy management and organization management
2. Steering Committee: strategic consulting and business guidance
3. Expert committee: professional consultation and guidance, technical control
4. Secretariat: day-to-day offices, alliance operations
5. Industry work group: Industry requirements and joint innovation
6. Horizontal Capability work group: promotion, marketing, test and validation, etc.

Team	Team leader
Energy Internet Industry Team	Hong Danke
Healthcare Internet Industry Team	Lu Qingjun
Multimedia Industry Team	Mei Jianping
Smart transportation industry Team	Xie Zhen Dong
Industrial Internet Industry Team	Zhang Yanguo
External Cooperation and Communication Team	Lv Ming
Innovation lab	Qiu Xuefeng
Marketing Team	Hu Chunzhe
Innovative Technology Group	Zhou Yan

感谢聆听
Thank You