

로컬5G 실증사례조사 및 한-일 DX정책교류 추진 계획안

< '22. 11. 18.(금), 이음5G사업팀 >

□ 출장개요

출장목적	o 로컬5G 실증사례 및 산업생태계 조사 및 한-일 DX정책교류 추진			
주요내용	o '도쿄도립대학(미나미오사와/히노캠퍼스)' 4.7GHz/28GHz 구축 사이트 현장방문, AR캠퍼스맵 등 실증서비스 체험 o 일본 로컬5G 공급 솔루션 현지조사 및 자율주행/원격농업/스마트스토어 등 실증시험 서비스 체험을 위한 'NTT중앙연구소' 로컬5G 오픈랩 방문 o 일본 디지털전환(DX) 정책 및 한-일 로컬5G 사업전개현황 등의 정책교류를 위한 '디지털 트랜스포메이션 리더스 CXO서밋' 참관			
출장기간	o 2022.11.28.(월) ~ 11.30.(수), 2박 3일			
출 장 지	o 일본(도쿄)			
출 장 자	소 속	직 급	성 명	성 별
	전파통신진흥본부	1급	문광민	남
	전파자원기획팀	4급	김기원	남
	이음5G사업팀	5급	김용권	남

□ 기대효과

- o 일본 로컬5G 실증사업 우수사례, 산업생태계 동향조사를 바탕으로 이음5G(5G특화망) 정책 및 국내 산업 활성화 추진 방향설정·정책수립에 기여
- o 이음5G 확산을 위한 '22년도 과기정통부-이음5G(5G특화망) 지원센터의 기능 강화(기술 컨설팅 등) 및 역할확대(바우처 사업 등) 방안 탐구
- o 로컬5G 등 4.7GHz Sub6GHz 및 28GHz mmWave 등 5G 이용대역 활용현황 조사 및 국내 정책수립 근거자료로서 활용

□ 주요일정

일자	출발지	도착지	업무수행내용	비고
11.28.(월)	김포	동경	o 김포 → 하네다공항 o 도쿄 도립대학 4.7GHz, 28GHz 구축 사이트 방문 및 관계 담당자 회의	KE2101
11.29.(화)	동경		o (오전) NTT중앙연구소 방문 o (오후) 도쿄 디지털 트랜스포메이션 리더스 CXO서밋 참석(1일차)	
11.30.(수)	동경	김포	o (오전·오후) 도쿄 디지털 트랜스포메이션 리더스 CXO서밋 참석(2일차) o 하네다공항 → 김포	KE2102/ KE2104

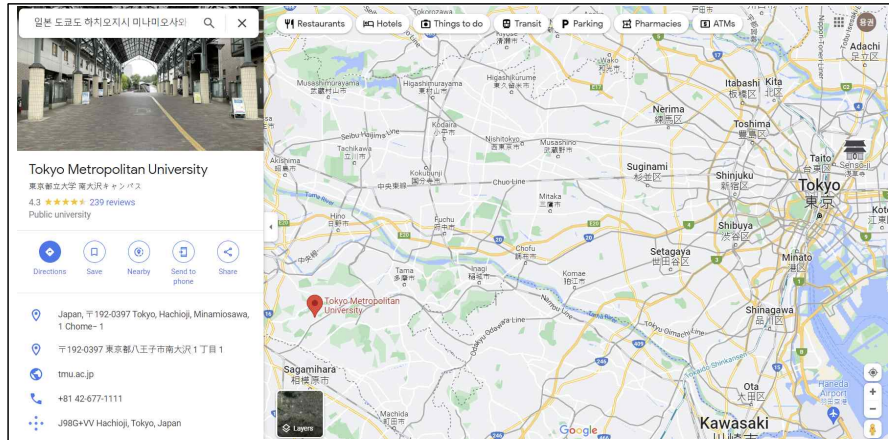
※ 상기일정은 현지상황에 따라 변동 가능

□ 개인별 업무분장

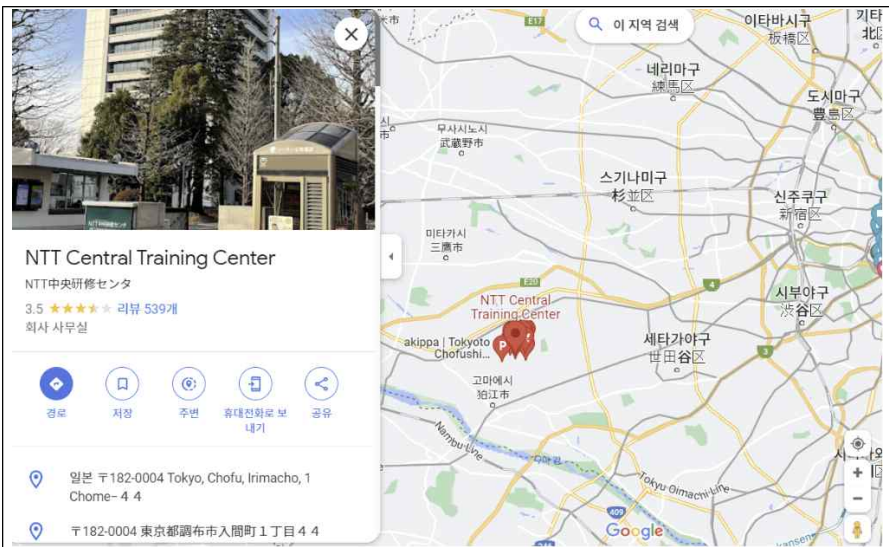
소 속	직급(직위)	성명	업무내용
이음5G사업팀	1급(본부장)	문광민	출장수행업무 총괄, 이음5G 활성화를 위한 기관 간 협력 방안 검토
	5급(과장)	김용권	일본 등 글로벌 이음5G 산업 생태계 현황조사
전파자원기획팀	4급(팀장)	김기원	이동통신(IMT), 사설망 등의 Sub6GHz, mmWave 5G 이용대역 활용현황 조사

참고1 일본(동경) 주요 방문기업/기관/행사장소

□ 도쿄도립대학(미나미-오사와 캠퍼스)



□ NTT중앙연구소(NTT Central Training Center)



□ 도쿄 디지털 트랜스포메이션 리더스 CXO서밋(쉐라톤 미야코 호텔)

GSMA

MIC
Ministry of Internal Affairs and Communications

Digital Transformation Leaders' CxO Summit, Tokyo JAPAN

Digital Transformation Beyond 5G

Tuesday & Wednesday, 29th – 30th November 2022

SHERATON MIYAKO HOTEL, TOKYO

DAY 1 Agenda

Tuesday, 29th of November 2022

Time (JST)

08:00~09:00 Registration

09:00~09:30 Opening Session

Greetings & Introduction – John David Kim, Head of NEA & DXAF, GSMA (5 mins)

Opening – Julian Gorman, Head of APAC, GSMA (5 mins)

Congratulatory Address – LT/GSMA (5 mins)

Welcome Address – Vice Minister, MIC Japan (15 mins)

09:30~10:30 Session I: Status Update on 5G & Digital Transformation in Japan

Moderator: John David Kim, Head of DXAF & NEA, GSMA

It has been two and a half years since the commercial deployment of 5G services in March of 2020 in Japan. In this session, the four Japanese MNOs will provide a status update and share experiences on 5G, beyond 5G and driving digital transformation in Japan.

Speakers:

Mr Naoki Tani, CTO, NTT DOCOMO, INC (15 mins)

Mr Hiromichi Matsuda, CSO, KDDI Corp. (15 mins)

Mr Tomohiro Sekiwa, CNO, SoftBank Corp. (15 mins)



Mr Sharad Sriwastawa, CTO, Rakuten Mobile, Inc. (15 mins)

10:30~10:50 Coffee/Tea Break

10:50~11:40 Session II: Holistic DX for Telcos....Digico or Techco?

Moderator: John David Kim, Head of DXAF & NEA, GSMA

Whilst playing a key role in facilitating digital transformation in other sectors, telcos have been slow in digitally transforming themselves and their services in the dynamic tech driven environment that requires agility, flexibility and adaptability. For successful digitisation, telcos need a holistic, future-forward approach that will help themselves transform radically internally and externally to drive innovation, business growth and be in line with the market, customers, competitors, and more agile new players. (Delaying, Innovative Monetization Services, DX for sustainability)

Presentation 1 – MNO
Presentation 2 – Darren Yong, Head of Tech, Media & Telecom, KPMG Asia Pacific
Presentation 3 – Abhishek Gupta, Co-Founder, Circles

11:40~13:00 Session III: DX of Networks: O-RAN and Automation
Moderator: Henry Calvert, Head of Networks, GSMA
Open RAN technology being deployed by mobile operators ultimately will lead to further innovation to expand the equipment supplier ecosystem and provide further economic efficiencies through network automation. Greenfield and brownfield operators in Japan have successfully deployed Virtual or Open RANs and are seeing the benefits of such an innovative transformation. What aspects of the regulatory or commercial environments in Japan has led to this success? How can Japan's experiences benefit the global supplier ecosystem, what can be achieved?.

Speakers:
Presentation 1 – Sadayuki Abeta, VP/Head of Open RAN, NTT DOCOMO
Presentation 2 – Sharad Sriwastawa, CTO, Rakuten Mobile, Inc.
Presentation 3 – Mayuko Tatewaki, SVP/Head of 5G Strategy & Business, NEC
Presentation 4 – Ecosystem Player/Consultant/Vendor

13:00~13:45 Lunch Break



13:45~14:00 Special Keynote Presentation
Seizo Onoe, ITU-T Director Elect

14:00~15:00 Session IV: Expectations and reality of 5G on the journey towards 6G
Moderator: John David Kim, Head of NEA & DXAF, GSMA
Leading 5G MNOs have already rolled out SA, partially or fully, in countries like Japan, Korea, Australia, Singapore and the US with the expectation that it will enable more innovative, diverse and immersive services resulting in sustainable new revenue streams. However, the gap between expectations and reality of 5G services is wide raising questions about realistic market demand for convincing services and sustainability of business models. The homework will be identifying, addressing and overcoming these issues creating this gap by rethinking and taking a revolutionary approach to ensure smooth journey Beyond 5G towards 6G.

Speakers:
Presentation 1 – Takehiro Nakamura, GM of 6G Labs, NTT DOCOMO
Presentation 2 – Satoshi Konishi, EVP, Advanced Technology Labs, KDDI Research
Presentation 3 – Mashiko Takanori, Director of New Gen Mobile Comms, MIC Japan

15:00~16:20 Session V: Policy vision for digital transformation
Moderator: Mani Manimohan, Head of Digital Infrastructure Policy, GSMA
Mobile connectivity and digital technologies are driving transformative change across the economy. While digital transformation offers large payoffs, they create new

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challenges for firms as vectors of competitive advantage and market structures shift and new market growth opportunities are created. New thinking is needed to realign policies and regulatory frameworks and set the vision for the digital economy. This session will discuss national digital agendas, role of mobile in digital transformation, the challenges in realising the digital vision and how policies can shape this trajectory in the 5G era and beyond.

Speakers
Presentation 1 – Yutaka Kitagami, Deputy Director General, MIC Japan
Presentation 2 – Shamsul Majid, Chief Technology & Innovation Officer, MCMC
Presentation 3 – MSIT
Presentation 4 – MNO

16:20~16:50 Coffee/Tea Break

16:50~17:30 Session VI: Exposure and Monetisation of Network Capabilities through Standard Open APIs (MNO Only Session)
Moderator: Henry Calvert, Head of Networks, GSMA
The Mobile industry has been instrumental in driving global GDP contribution, from \$2.4 trillion in 2013 to a forecast of \$5 trillion by 2025 driven by the 5G Era.[1] However, operators only capture 25% of the GDP value created. Emerging Web 3.0 and Metaverse, such as gaming, online retail, industry 4.0 augmentation, could provide a market opportunity of \$680bn by 2030[2]. These new universes of value will challenge networks for speed, latency and dedicated capability needs, a new Tsunami of data traffic, that will require planned connected infrastructure in other markets and regions globally.
There will be multiple new universes, no one operator will be able to scale to support, and hyperscalers will play a significant role individually or in partnership with operators.
GSMA's initiative builds on its expertise and reach to support its members in the Exposure & Monetisation of Operator Network Capabilities through Open APIs and universal federation.

Speakers
Introduction – Henry Calvert, Head of Networks, GSMA

Panel Discussion
Masaaki Koga, Executive Director, Technology Sector, KDDI
Jemin Chung, VP, Infra DX Laboratory, KT Institute of Convergence Technology
Axiata/MNOs

17:20~17:30 Summary of Day 1 & Closing

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