



CELTIC-NEXT Proposers Day

26th September 2018, Madrid



Pitch of the Project Proposal

TeleMove



Dr. Rony Ohayon, LiveU
rony@liveu.tv

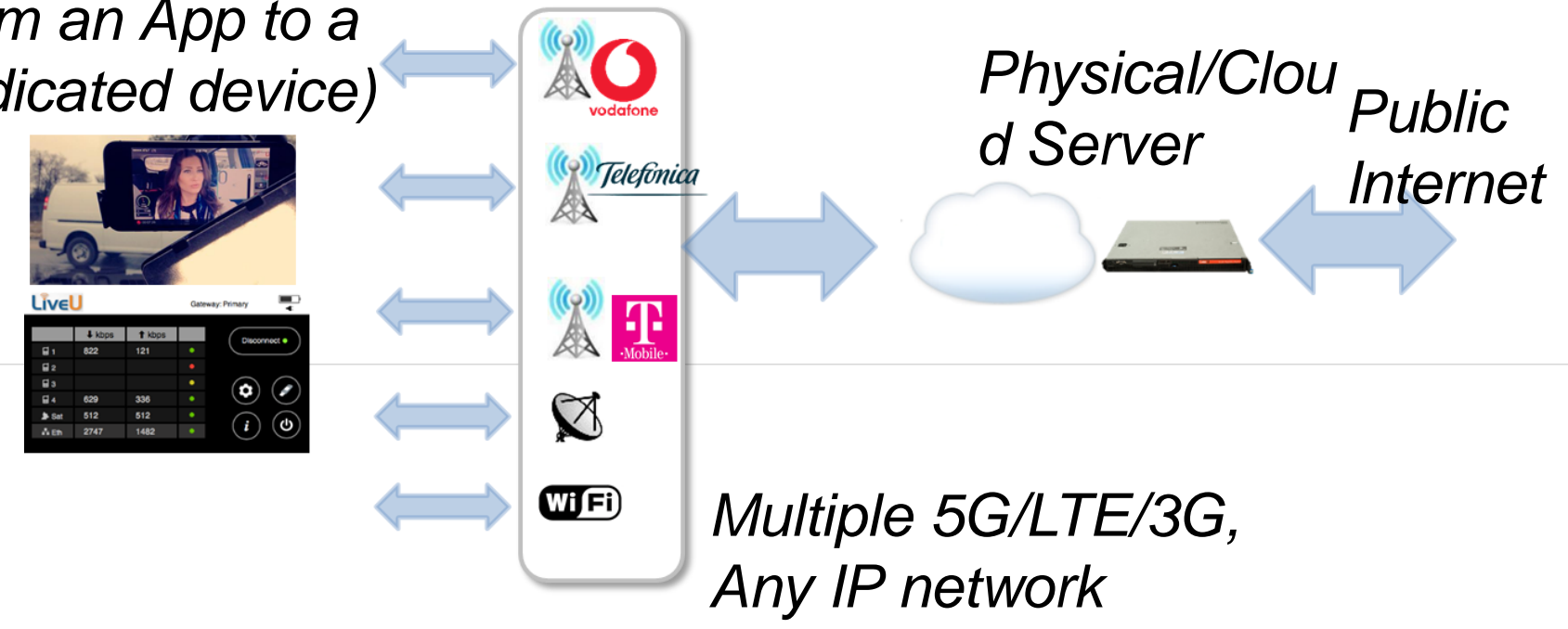
TeleMove

- Develop **best practices for holistic remote driving** interventions, or teleoperations, of autonomous vehicles
- **De-facto standard for remote driving**
 - Use cases analysis
 - Communications method (multilink cellular, 5G, 4G)
 - Delivery of multi-sensors: video and other sensors
 - The remote driver control methodology
 - Interconnecting to the vehicle
 - Vehicle-environment interactions
 - Scalability, safety, reliability

Organisation Profile

- LiveU technology enables broadcast quality (4K) live video transmission from the field **over multiple cellular and other networks**
- Installed in the majority of broadcast and media networks worldwide
- Advanced IP Cloud-based product portfolio & services
- Used for high speed data and security applications

LiveU multi-link bonding software (from an App to a Dedicated device)



50%+
global market share

~30
Patents

2,000
end customers



- Member in: H2020 5-Xcast, Celtic Health^5G, M2MGrid, PrestoCloud, Nubomedia, FP7 Medieval, ...

Proposal Introduction (1)

How to Overcome Rare Scenarios?



Telemove Introduction (1)



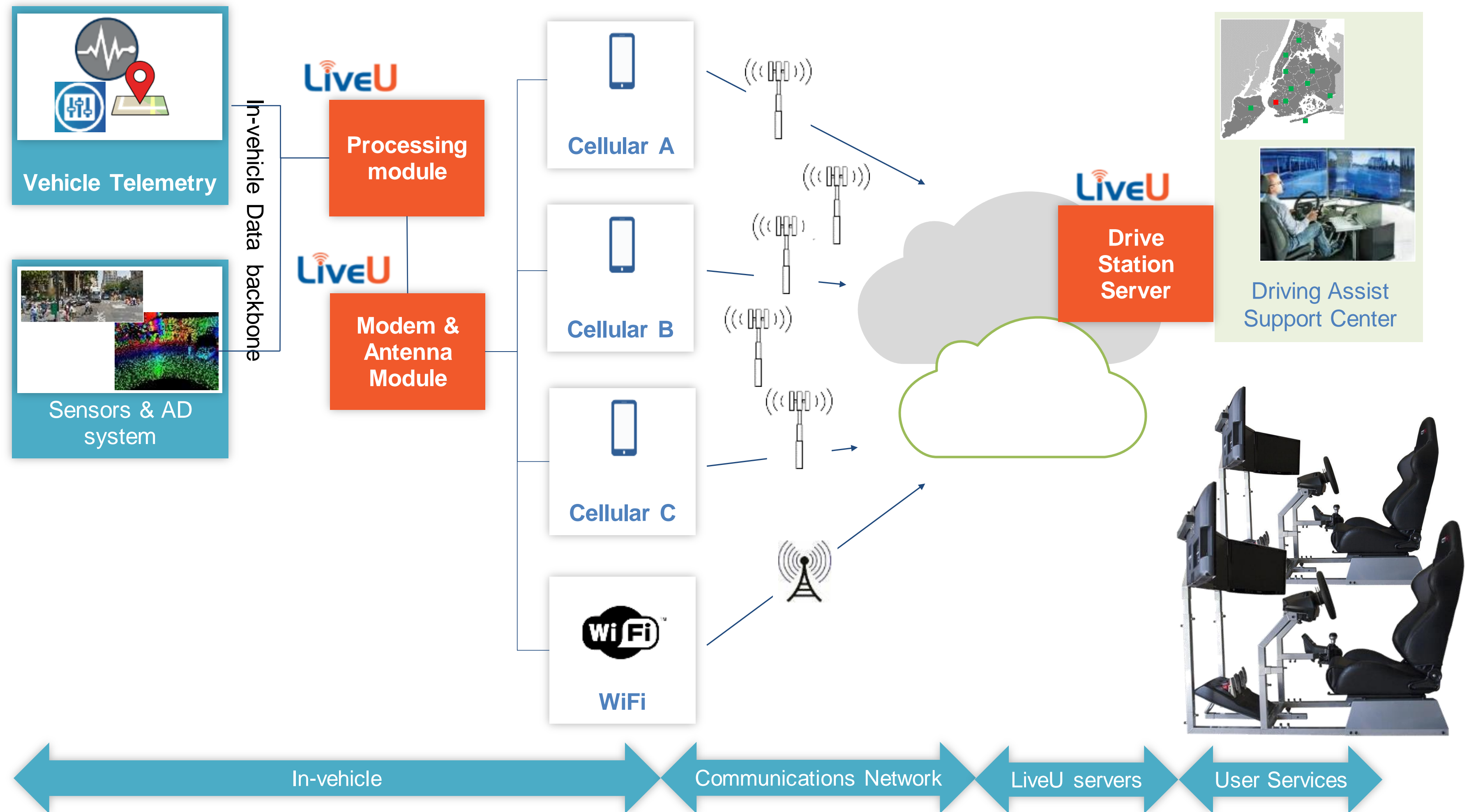
- Remote driving of various vehicles (trucks, busses, cars) is needed in order to handle the unexpected and during the long transition period to more autonomous vehicles
 - Exact use cases, complex environments, multi-parameters scenarios
- The “right” way to solve the problem is not identified
 - How remote driving is done?
 - Holistic, from the remote driver through the vehicle to other road users
 - Extremely low latency, high bandwidth, everywhere, all the time, including emergencies
 - QoE for the remote driver, the passengers and other road users

Goal: Enable scalable, safe and effective remote assisted driving of any vehicle, anywhere, whenever needed

TeleMove Introduction (2)

- Expected outcome
 - Best practices for scalable, safe and effective remote driving service, anywhere, anytime
 - In Communications, human factor, vehicle integration, interactions with other road users
- **Impact**
 - Leadership and de-facto standard for remote driving
 - New business opportunities: globalize remote driving as a service
 - Accelerate and smooth the acceptance and transition of autonomous vehicles
 - Relay capabilities and limitations to the regulatory bodies, insurers, vehicular OEMs ...
- Schedule
 - www.celticplus.eu 3 years project

General architecture



TeleMove Partners



- New consortium
 - LiveU: multi-link bonded communication, video transmission, remote driving solution
- Looking for:
 - Vehicular OEMs/Tier1s (trucks, busses, cars)
 - Vehicular drivers psychology researchers
 - Driving simulators and games developers
 - 5G cellular operators, MEC
 - Drone/UAVs remote control rooms software vendors
 - AI researchers for remote assisted driving

Contact Info



For more information and for interest to participate please contact:

Dr. Rony Ohayon
rony@liveu.tv
www.liveu.tv



Presentation available via:

www.tiny.cc/projectidea



Join the follow-up Telco

2nd of October 10-11 CET

For PSTN Access, dial [+49-6221-905280](tel:+49-6221-905280)
After or during the voice prompt,
dial 5-digit conference ID **32845**
(using DTMF or softphone keypad)

For International access
numbers <http://vc.eurescom.eu/international-info.html>
For Voip (SIP) Access, dial ac@eurescom.eu.
For help with Voip (SIP) client
setup, <http://vc.eurescom.eu/voip-info.html>.

