CELTIC-EUROGIA Proposers Day
29th January 2020, at Nokia Premises in Madrid

Pitch of the Project Proposal

Autonomization of agricultural equipment and vehicles

Dr. Ralf Frotscher
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Innovate services in agriculture based on 5G communication, e.g. predictive maintenance
Develop and continuously deploy services in agricultural equipment and vehicles
Realize the benefits of 5G
Autonomous harvesting and planting

More efficient agriculture
Less idle time
Organisation Profile

TWT GmbH
Science & Innovation

33 years
technical-scientific transfer

350 employees
academic interdisciplinary

5 locations
customer focused

4 perspectives
an integrative performance

1 fundamental principle
WE KNOW HOW.

Management board: Dr. Dimitris Vartziotis, Dipl.-Ing. Frank Beutenmüller, Dr. Victor Fäßler, Dr. Michael Keckeisen

Dr. Ralf Frotscher, TWT GmbH, ralf.frotscher@twt-gmbh.de
Proposal

Introduction

- Development of a concept for a telecommunications based solution
- Fully autonomous tractor
- Use of radar lidar and camera sensors
- Autonomous Harvesting and planting
- Intelligent greenhouses.

- Cloud servers can access the greenhouse's IT system remotely if it is networked.
-remote maintenance
- predictive maintenance
- Automatic detection of pest infestation
- Use of drones for plant disease prevention.
- sensor can detect and monitor weather conditions, water level, soil content and automatically alert the user.

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Proposal

Introduction

Topics

Service innovation and development based on relevant use cases
Requirements on 5G infrastructure
Virtual validation and matching with measured data

Project duration: 36 months

Looking for

2nd European Country
End user/Manufacturer
IT platform provider
TelCo provider

Projects to join or connect with that work on 5G-based service innovations
Join the follow-up Telco
3 February 11.30-12.00 CET

Meeting number: 145 016 985
Meeting password: D7uSYxM74W3
Link to join:
https://eurescom-meetings.webex.com/eurescom-meetings/j.php?MTID=ma75365b8c9bff98af9bc6a1a626d8ab5

Join by phone
+49-6925511-4400 Germany toll
Global call-in numbers

Can't join the meeting?
Contact Info

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