# EURO MD2 project proposal

Celtic-Plus event

Basel, Nov. 18, 2014



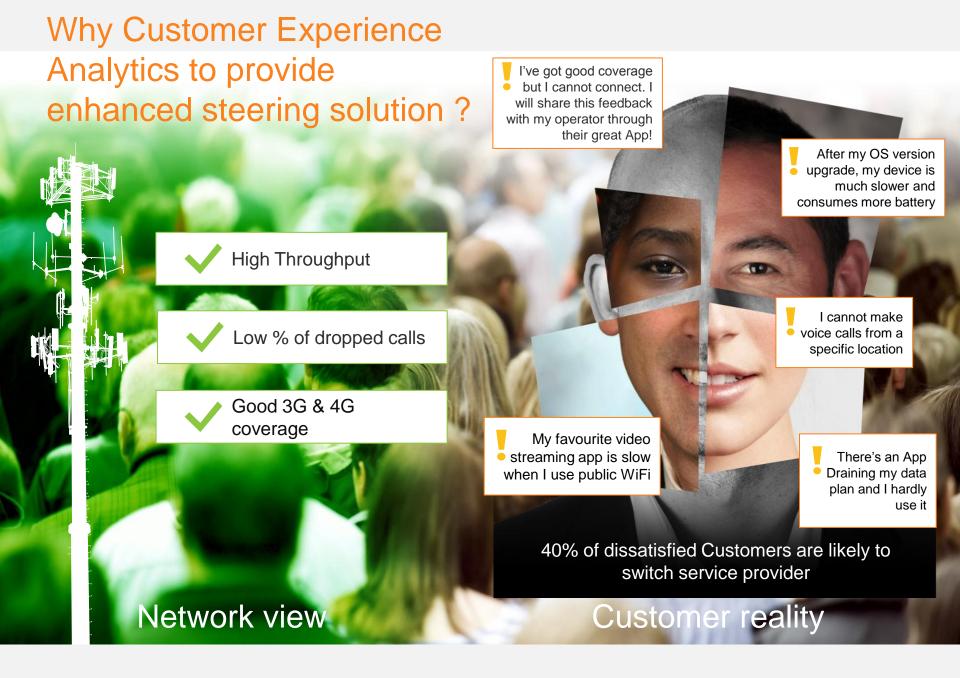












#### Project proposal

**× Transparent Multi Device Data roaming across Europe** 

"Improve User experience for IP based services while roaming within EUROPE.

New roaming solutions to perform Device-based LTE roaming steering according to the device parameters and the Measurement of customers perceived experience (QoE)".



#### **Project partners**

- ★ GEMALTO (France):

  Mobile handsets database
- **★ SMS (Spain):**QoE solution / server, mobile apps
- **MCTEL (Monaco)**Roaming steering platform
- EURECOM Insitute (France):
  Roaming users profiling apps & LTE validation
- MONACO TELECOM (Monaco):
  LTE Validation infrastructure & use cases
- × Associated partner : Com4innov (France) Experimental testbed - LTE & Roaming













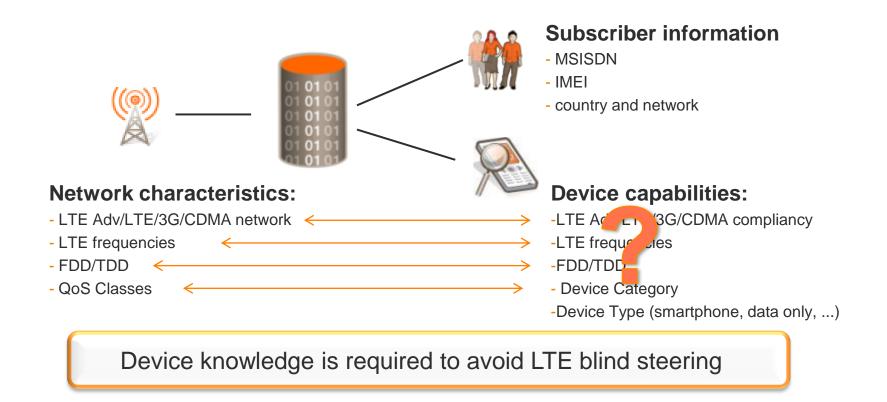


# Improve User experience for IP based services while roaming within EUROPE

Propositions	Activities / Partnership
Perform Device based LTE roaming steering according to the device parameters:  Device Type (Brand, Model) Radio Frequencies supported TDD vs FDD access method Native VoLTE support SRVCC support Native RCS support Refresh support Device/network categories LTE Advanced support LTE broadcast support Etc	Collection, Test & Validation of device characteristics is required
Perform LTE Roaming Steering according to the QoE of outbound roamers and steer accordingly:  • Steering rules take into account the Network view, Device dimension and QoE perceived by Customer  • Measure MNO services performance (Measure Quality Of Experience as seen by roamers) for network coverage and Data Services  • Customer Network Analytics: set of reports and views to help the Operator to quickly understand QoE of different services	SW integration of Roaming Steering platform and Customer Network Analytics platform  In situ validation with LTE validation infrastructure

#### Device based steering for LTE

Is it possible to steer correctly a subscriber in a LTE world without knowing their device capabilities?



gemalto

## Device based steering use cases for LTE

Partner	Device	Steering policy
3 <b>G</b>		Signaling <b>rejected the first time</b> or accepted but with OTA request to push him to LTE partner
Lte.		Accepted to boost the LTE usage
3 <b>G</b>		Depends on the operator objectives
<b>Lte</b> .	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Depends on the operator objectives but <b>not prioritary</b>

Device based LTE steering for a "like at home" experience



## Enjoy powerful customers segmentation

- Apply different steering rules for each roaming profile and for each device type and QoE experience collected
  - Steer prepaid subs on CAMEL partners
  - Steer heavy data users on LTE networks
  - Steer accordingly to the M2M use case and needs

Customer segmentation

device based steering

and QoE experience

are key to deliver the best Quality of Experience



=> Target is to reconciliate Network and Users views



#### Euro MD2 project proposal overview

- Advanced concept of stirring solution using device database and QoE analytics
- Targeting CELTIC Plus, Feb. 2015, « spring call »
  - × "While connected" Celtic Plus area i.e. once communication is established, including requirements for end-to-end services and applications.
  - × Duration: 24 months
- Search for additional partners:
  - × With strong mobile expertise: device data base or mobile services or solution developer to assess the stirring quality
  - Complementary techno bricks improving the technical approach
  - French or Spanish or MC, SMEs/ETI to ease funding process and relevancy

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