

16 M€

Revenue 2013-2015



6 FP7

2 H2020 **Last 5 years**

97 86 **78** 2013 2014 2015

Journal papers

ICT R&D Private Technology Center



Luis Pérez Roca

Advanced Commun. Area



- > 100 clients
- > 60 active projects

EU acknowledgement as **Excellence Center**



Nuria González Prelcic

ICT research

center at UVIGO

Signal Processing in **Communications Group**



7 FP7 **2** H2020 Last 5 years

Expertise on wireless communications for 5G



MIMO architectures at mmWave

Hybrid precoding and combining

Channel estimation

Array design

Low resolution receivers

Massive MIMO at mmWave

MmWave in transportation

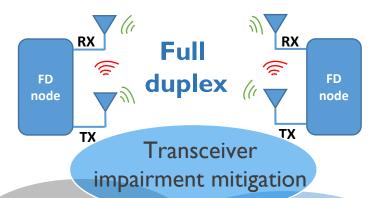
Vehicular communications

Joint radar and V2X commun

Radar aided V2I communications

TA1, TA2, TA3 TA4, TA6 , ...*

Technologies for some 5G Phase 2 TA



Full duplex relaying

Self-interference cancellation



Satellite communications

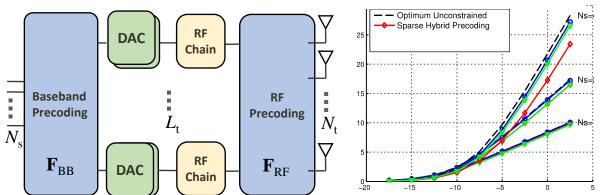
Communications to mobile platforms (ships,UAVs,etc.)

Flexible spectrum allocation: CR, SDR, interference

Recent results

SPAWC 2015. CAMPSAP 2016

Low complexity hybrid precoding designs Power/bit rate tradeoffs at mmWave

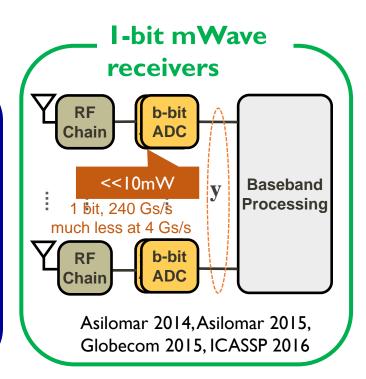


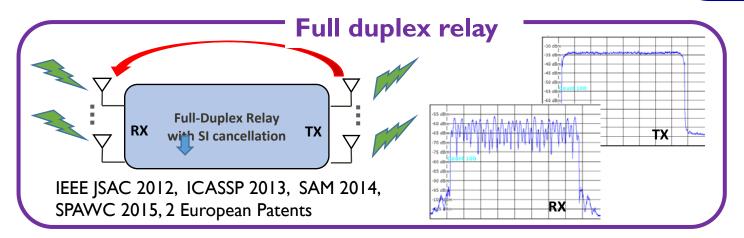
IEEEAccess 2016, IEEE Communications Mag. 2014, IEEE JSTSP 2016, ICC 2015,

S-band adaptive SDR-based transceiver



ASMS 2014 Best paper award





MmWave joint radar & vehicular communications prototype

Phase 1

MIMO 2x2 BB

protoype, 1GHz BW

Phase 2
Radar processing
Low latency coding