

OHB System AG
Andrea Jaime
08.05.2020



OHB System – Quantum Technologies
EPIC Online meeting – Photonics in New Space



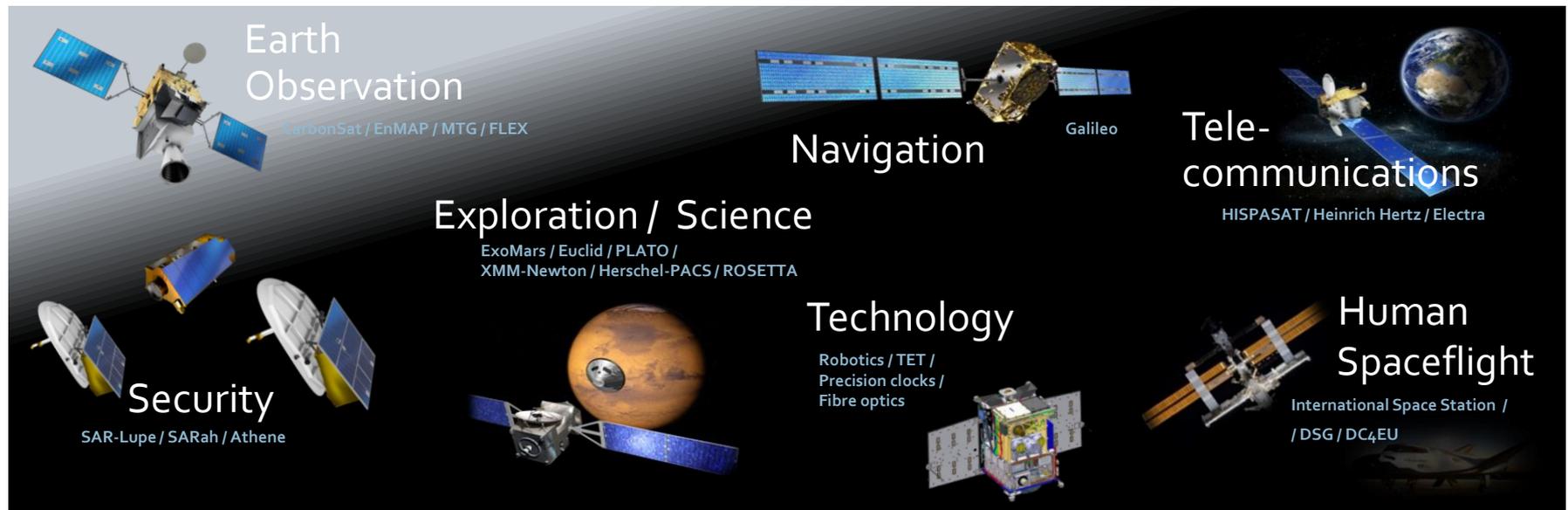
"As a 'start-up with experience of life', we are able to address the established markets and respond swiftly and agile to new challenges."

Marco R. Fuchs, Chief Executive Officer of OH B SE



Business Activities

- Entire scope of space domains



- Complete range of project management, from small-scale payloads and missions to large-scale satellite and space infra-structures

OHB Quantum Technologies Vision & Goal

*OHB has been established as a **major systems partner** in the realization of quantum technology systems aiming to transfer European research into the technology of tomorrow.*

Quantum Technologies Working Group (QTWG) est'd mid 2016

Optical atomic clock and frequency comb technologies are being studied **since 2009** as core technology in Munich within **Predevelopment**.

With additional support from **Systems Engineering** and **Business Development**, in **2016** the **Quantum Working Group** has been established to cope with all quantum related topics:

- Former PhD Students & Post-Docs with quantum physics background
- Supported by Business Development,
- Systems Engineering, and
- Predevelopment.



Currently assigned topics:

1. **Quantum Key Distribution** space based
2. **Cold Atom Sensors**
3. Optical **Atomic Space Clocks** and Optical **Frequency Combs**



Besides the current core team there are **more than twenty** employees in Munich with background in quantum optical research



Institutional Customers recognize Importance of QT

QT Flagship



QCI

(Quantum Communication Infrastructure)

OpenQKD testbed

SPACE-29-TEC-2020

H2020 Call

QKD on Galileo

Marie Curie programme

QT in Microgravity Application Program



SAGA / 4S – QKD

QUARTZ (2)
QRNG

ARTES ScyLight

C-COOL
Quantum Sensing
ESA-TEC

QT on GNSS Evolution
Experimental Payload



Forschungsrahmenprogramm
Commercialization of QT

3 new Quantum Institutes
Hannover – Ulm - Oberpfaffenhofen



Bavarian initiative
QUnet initiative

Photonics in New Space

What can we do for you?

- Exchange ideas on business opportunities within space systems
- Provide some guidance on how space projects work
 - Systems Requirements Definition, PA, etc...
- Potentially become a partner or a customer

What can you do for us?

- Inform us about the latest news on the technologies you are developing, and/or that are space qualified
- Actively tell us how you think your technology can be incorporated into the space systems, and the benefits of it
- Be our provider or partner

THANK YOU!

Andrea Jaime Albalat, Business Development Manager
Andrea.Jaime@ohb.de



OH B



@OH B_SE

www.ohb.de



@OH B_SE



OH B