



IMPACT OF NEW TECHNOLOGIES AND FUTURE TRENDS

ITU workshop on the efficient use of orbit/spectrum Resource

A KEY PLAYER IN THE SPACE BUSINESS

**EUTELSAT,
AT THE HEART OF
A DIGITAL WORLD**

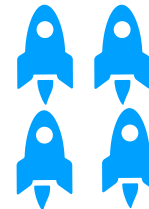
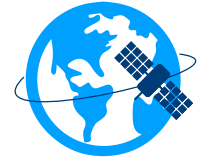


Pioneer in space

over **30** years of
experience

39

Satellites
for global coverage



Solid investment programme

4 satellites
to launch

STAYING CLOSE TO OUR CLIENTS

20
OFFICES

6 TELEPORTS
OVER **60**
PARTNER TELEPORTS

ONE
GROUP



- Beijing
- Cologne
- Dubai
- Istanbul
- Johannesburg
- London
- Madeira
- Madrid
- Mexico
- Miami
- Moscow
- Panama
- Paris, Group HQ
- Rio de Janeiro
- Rome
- Singapore
- Tampa
- Turin
- Warsaw
- Washington D.C.

AN ESSENTIAL LINK IN THE CHAIN

TODAY



Feeding terrestrial headends (ADSL, cable, DTT), Direct-to-Home reception



Extending mobile networks



Broadband, accelerating quality access to the Internet

TOMORROW



An accelerator of mobile coverage



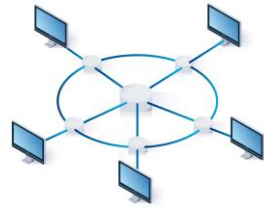
Connected cars: a facilitator for content reception

A KEY CONNECTIVITY SOLUTION



High Throughput Satellites
already offering **ADSL-like** connectivity

Tomorrow: fibre-like connectivity



High demand across
mature and developing
markets



New mobile services:
maritime, in-flight

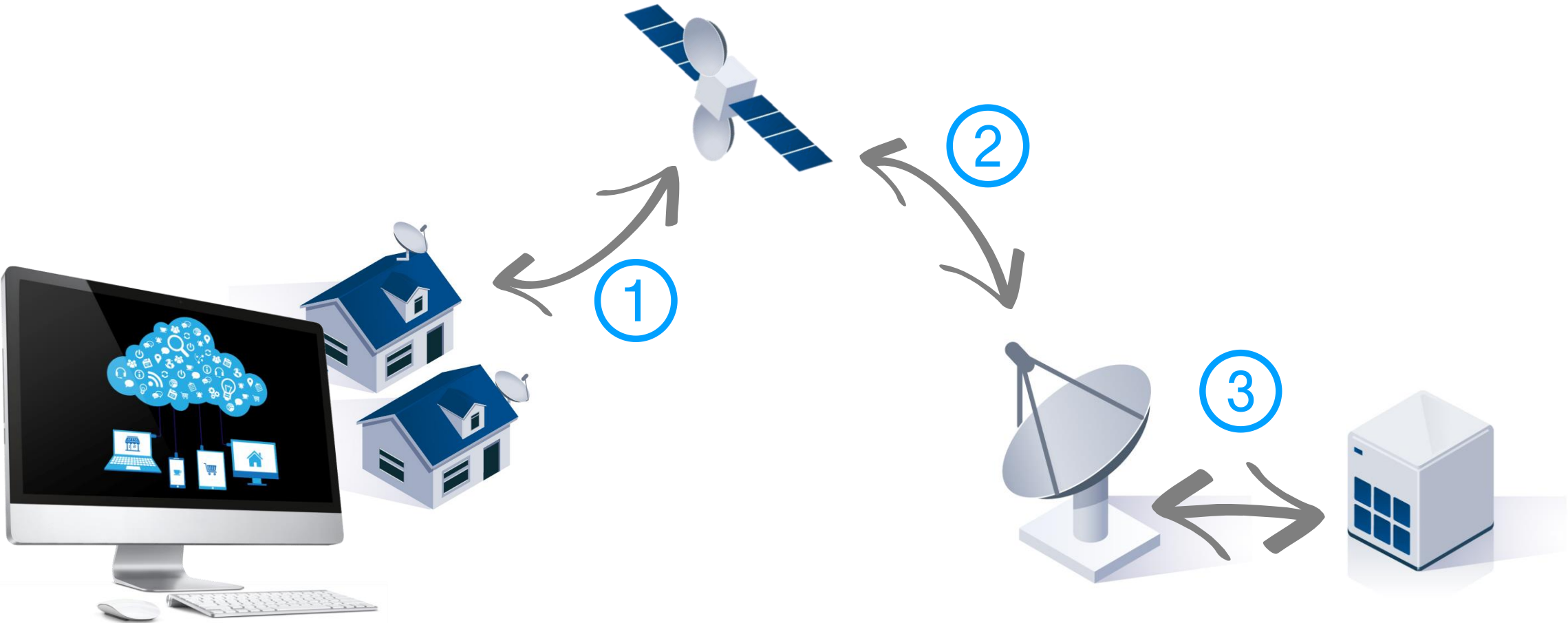
ViaSat

HUGHES
An EchoStar Company

Gilat
Gilat Satellite Networks

Panasonic

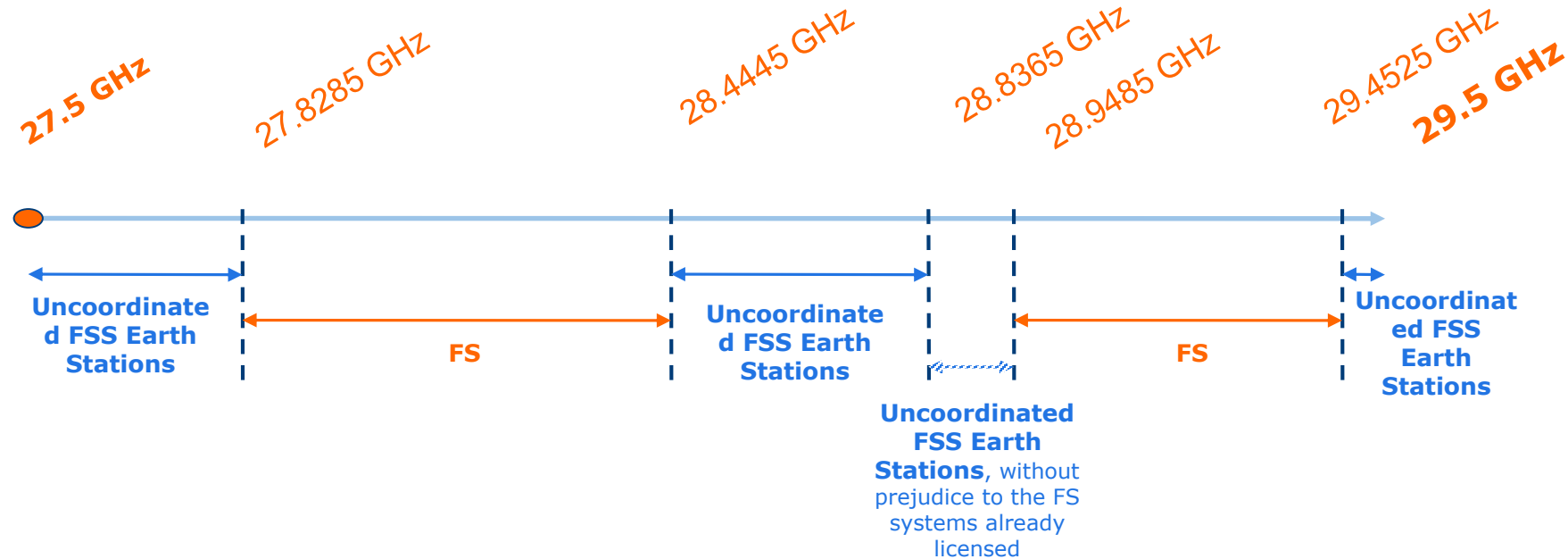
SATELLITE BROADBAND: HOW IT WORKS



EXAMPLE HTS BEAM LAYOUT (EUROPE)



USER TERMINALS IN THE NON-EXCLUSIVE BAND



As per CEPT Decision ECC/DEC/(05)01

- Implemented already today by 26 CEPT countries
- Modified in 2013 to allow for individual license exemption in band 27.5 – 29.5 GHz

Also: ANATEL Public Consultation no. 13 - proposal to limit the use of the bands 18.1-18.6/27.9-28.4 GHz to networks of the fixed-satellite service (FSS)

CONCLUSIONS

- ✓ **Satellite will and must be a part of the telecommunications ecosystem including in the future high speed, 5G world.**
- ✓ **High Throughput Satellites (HTS) will be a key contributor to connecting the world's citizens.**
- ✓ **HTS satellites require user terminals operating in the Ka band, and gateway links operating in the Q/V bands.**
- ✓ **Satellite Ka band is relevant in tropical and sub-tropical regions, particularly for ubiquitous broadband connectivity.**
- ✓ **Supporting the ITU consensus of WRC on IMT frequency bands is key for the mutual development of terrestrial and satellite industries (more on this tomorrow!)**