

CHARTER OBJECTIVES



- Pre-Planned solutions Triggered by the ETC redundant, Hybrid, predictable & scalable end-to-end satellite-based solutions.
- End-to-end solutions Ensuring full operational satellite network up to Ethernet port of modem; ETC takes over for the LAN network distribution.
- ✓ Comms for everybody Communications for up to 1000 humanitarian workers and the effected population.
- Immediate implementation Solutions to be deployed within 24 hours with a mixture of MSS & FSS.

CHARTER OBJECTIVES



- One point of contact per signatory & ETC For each signatory to facilitate the coordination of solutions with a single contact point for the ETC.
- Training & capacity building Signatories to capacity build in the humanitarian community, local experts, governments, & response communities
- ✓ Full ETC logistical support Equipment stored in Dubai at the Humanitarian Response Depot ready for transport to disaster areas, transport within disaster areas, importation & licensing.

IMPLEMENTATION - TIME OF DISASTER

STEP 1

- **✓ ETC triggers Charter**
- ✓ Conf-call to take place within 12 hours where ETC informs Charter Signatories of context & requirements
- ✓ Charter signatories reach an accord on which pre-planned response(s) to recommend to the ETC
- ✓ If no pre-planned response has been identified, then Step 2 will be activated

STEP 2

- Charter Signatories agree on most suitable response(s)
- ✓ Charter Signatories hold second conference call with the ETC within 48 hours of the charter triggering

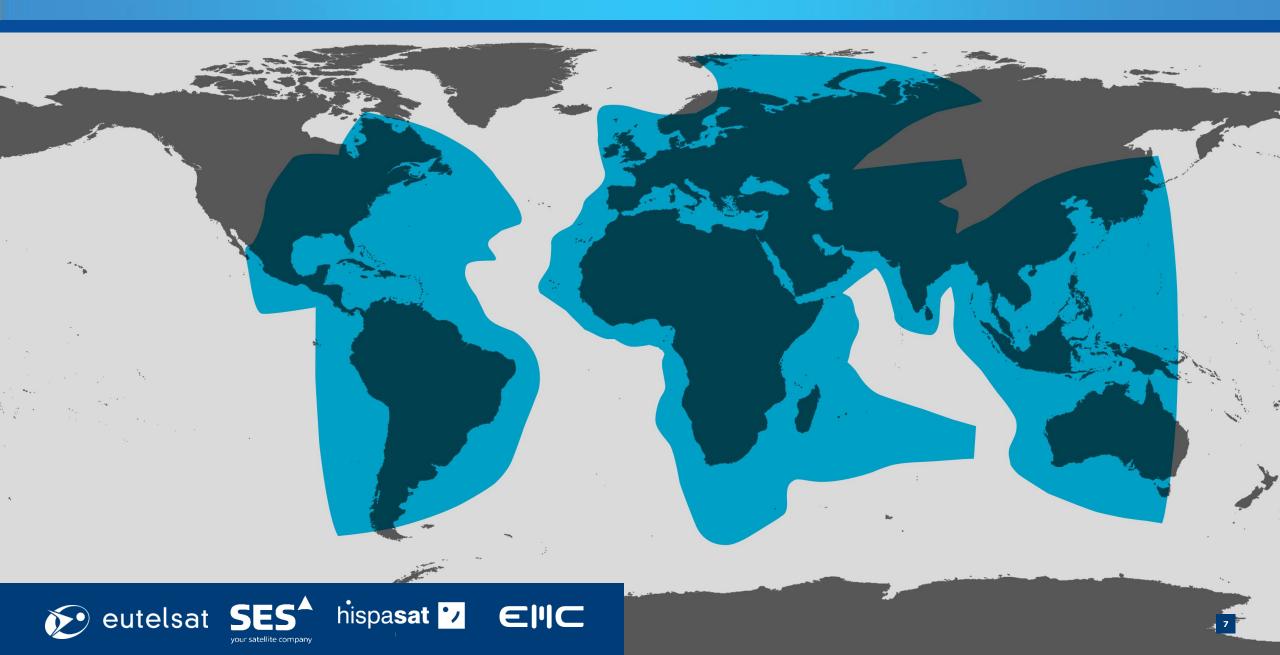


CHARTER SIGNATORIES





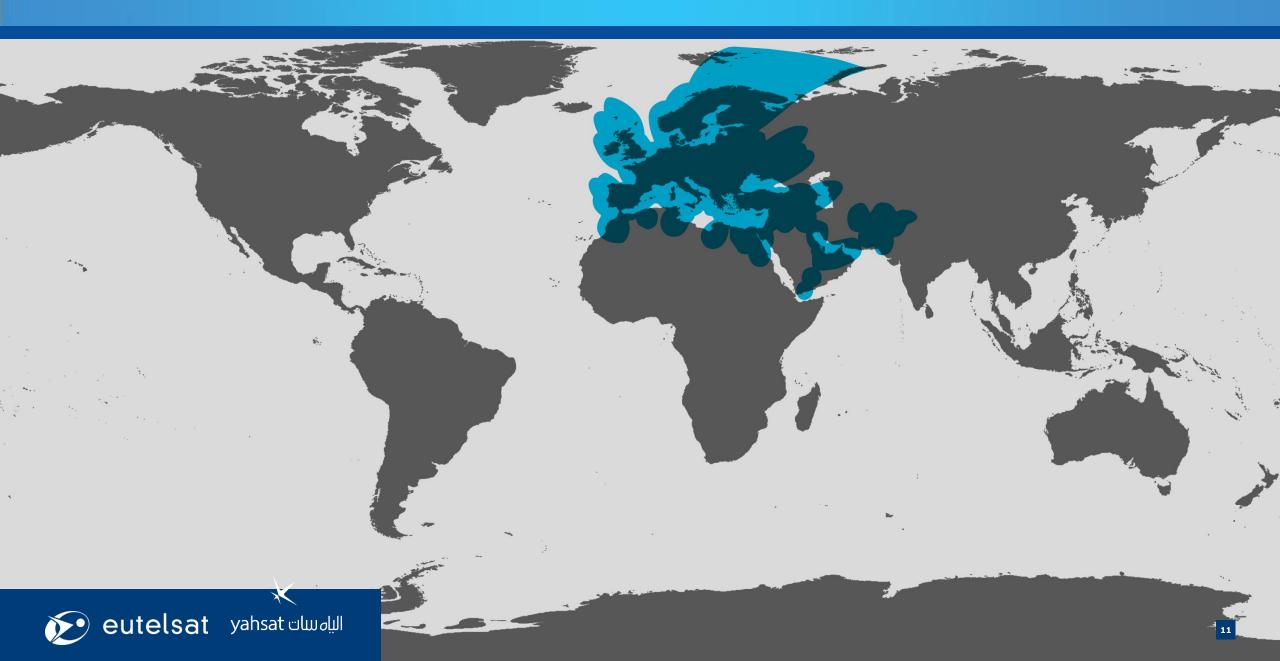
KU-BAND



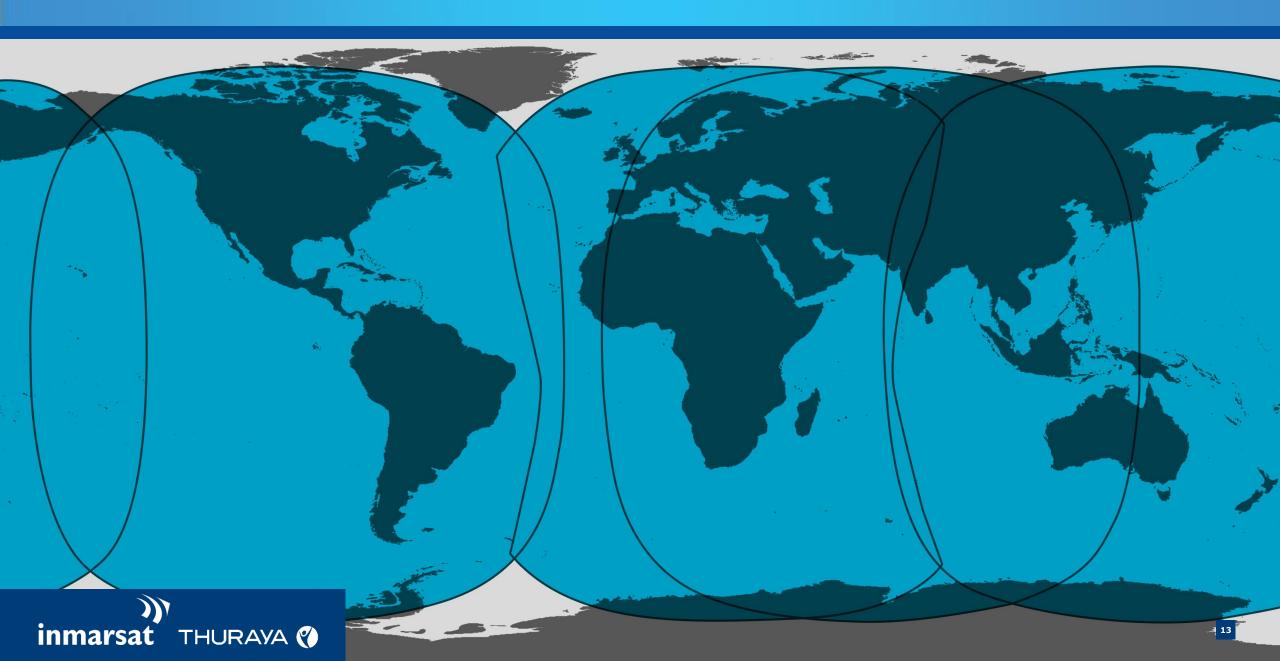
C-BAND



KA-BAND



L-BAND





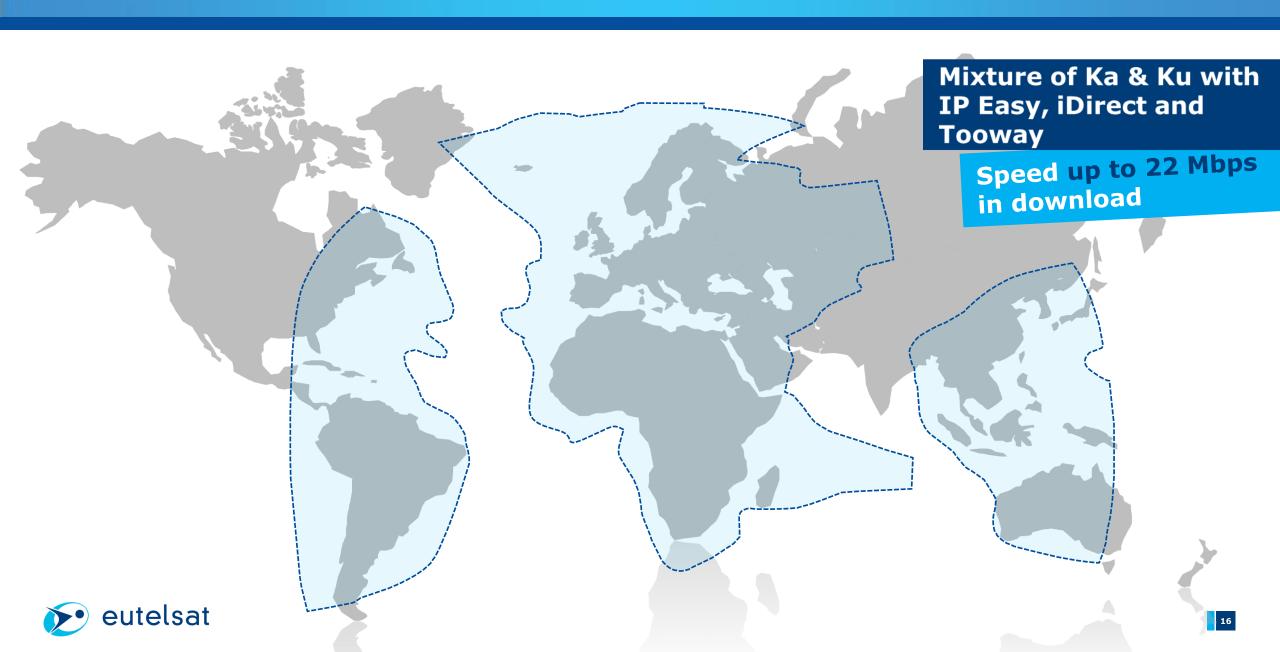
EUTELSAT



- **→** 80 VSAT terminals Estimate 10 per disaster
- → 6 satellite coverages S America, Africa, Europe & Asia
- Training of ETC members
- **→** End to end solution
- Unlimited or dedicated bandwidth for first 3 months



THE EUTELSAT COVERAGE



TOOWAY





NEWTEC/IP EASY

When we first saw it, it seemed just some consumer grade stuff but actually

it is the coolest system we have ever installed

Nethope







- →1m & 1.2m
- → Installation in 1 hour





GLOBAL NETWORK OF TELEPORTS



COMPREHENSIVE GLOBAL FIELD SUPPORT SERVICE



Field Support Networks



Training



VSAT Innovation and Development

SYSTEM INTEGRATION TEAM3 Pillars





FIELD SUPPORT The Eutelsat Difference







VSAT INSTALLERS



- Responsible for approx. 300 000 VSAT installations in total across 4 continents, Europe, Africa, Middle East & Asia
- 6900 Tooway Installers trained and certified in class room situations across 3 continents.

IN TOTAL
OVER 12,000 TRAINED INSTALLERS

GLOBAL FIELD SUPPORT PARTNERS

- **✓ 80 Field Service Partners**
- ✓ Coverage
 - **→Europe Middle East Asia Africa**
- ✓ Network Validation Diagnosis of issues with DATA, VSAT or Broadcast networks
 - proposed & implemented solutions



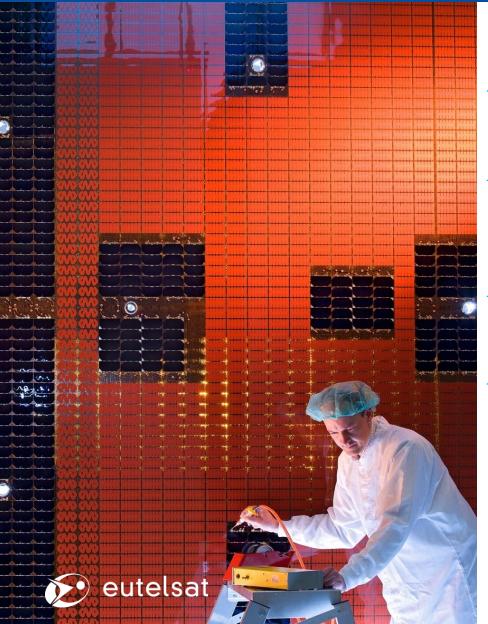




The largest training initiative in the industry



TRAINING TOOLS



- ✓ Classroom courses: Theoretical and Practical
 - → Local training centres in UK, Italy, Spain, Croatia, Germany
- Road Shows to create installation and "Point Of Sale" networks in Italy, Spain, France, UK, Croatia, Russia, Caribbean
- On-line University with courses in SNG, VSAT, Maritime, etc in cooperation with GVF.
- Dedicated you tube site and installer portal

OVER 12,000 TRAINED INSTALLERS

TRAINING TOOLS AND APPS

- Videos and online training tools
 - → 320,000 views of installer videos
- Installation Apps
 - → 500,000 downloads of dedicated apps









INSTALLATION APPS



→ All our apps are available free-of-charge from iTunes and Google Play

✓ The Eutelsat Finder app

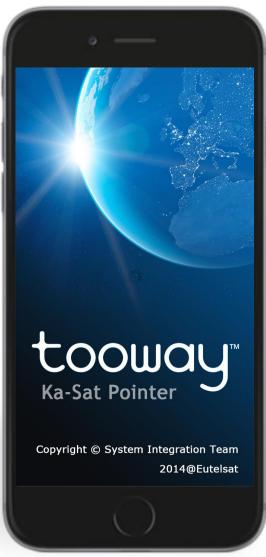
- → Easy-to-use tool to point satellite antennas
- → Provides basic parameters for exact antenna pointing (elevation and azimuth angles, line-of-sight, optimal polarisation angles)

✓ The KA-SAT Finder app

- → Essential information for Tooway antenna installers
- → Provides spot configuration, azimuth and elevation angles according to geographical position



INSTALLATION APPS



- Entire installation and activation
- Secured E-mail with GPS data for installation management
- About 7 000 downloads in 6 months
- Patent pending







OBJET: KA-SAT POINTER REPORT: 00:A0:BC:3B:87:96

FROM : INSTALL TOOWAY TO : distributor@distributor.com

BEGIN
LATITUDE=48.55695432056538
LONGITUDE=1.790893692524909
DATE=THU JUL 24 2014 12:03:38 GMT+0200 (CEST)
INSTALLATION_STATUS=ONLINE
UT_MAC=00:A0:BC:3B:87:96
FORWARD_SNR=13.6
RETURN_SNR=10.19
SOFTWARE_VERSION=UT_1.5.4.2.6
RECEIVED_POWER=-33.5
CABLE_ATTENUATION=9.9
ODU_CABLE_RESISTANCE=0.5
END
HASH_MD5=8E0EA482B7A67950A0133B2285950153





IT'S THE SMALL THINGS THAT COUNT

2 minutes to construct

NO TOOLS needed

VERY STABLE 1.2m

6 watt antenna









