



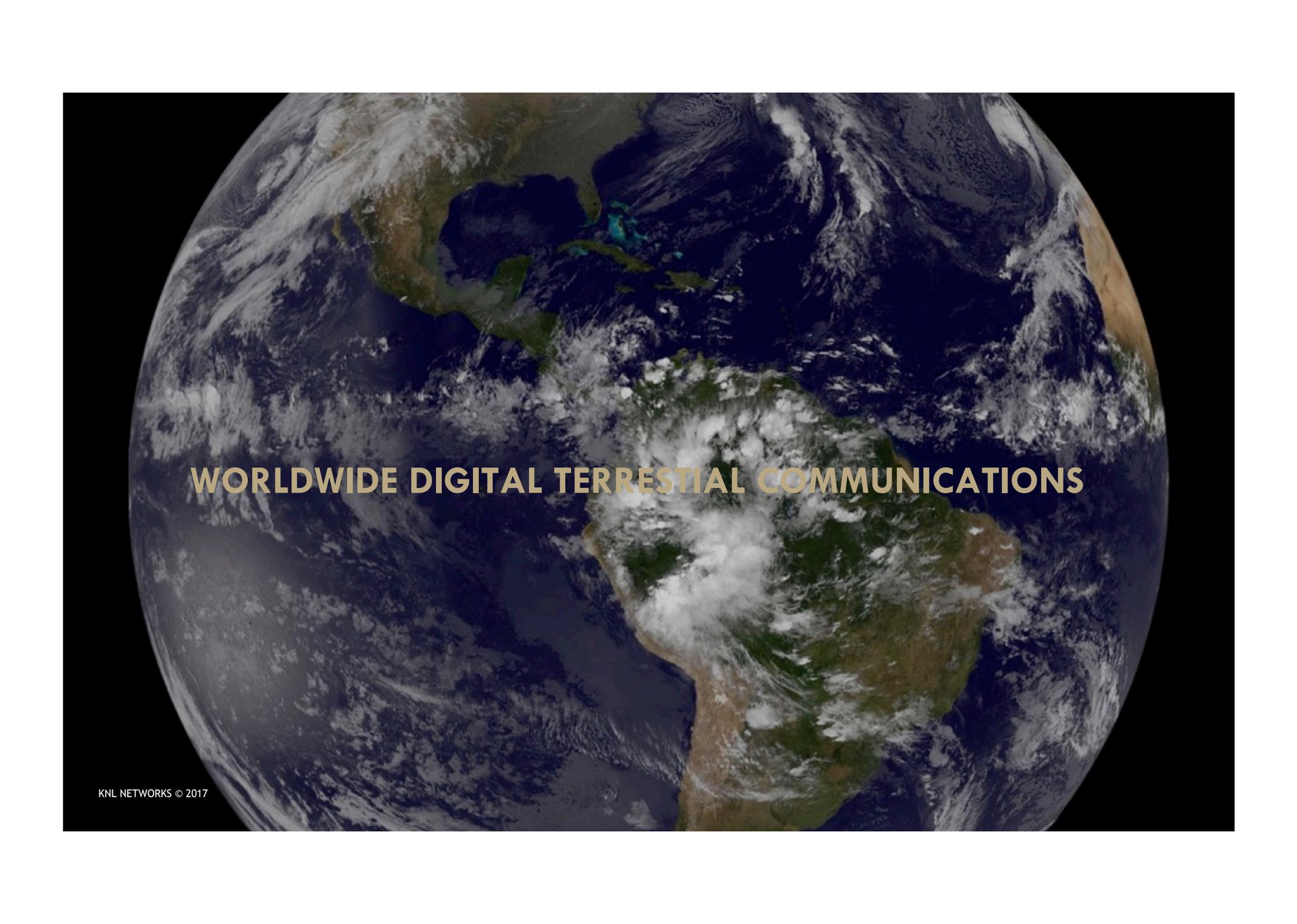
**KNL Networks, January 2017**  
**Teemu Vanninen (CTIO)**

**CURRENTLY PEOPLE AT SEA ARE LESS CONNECTED  
THAN PEOPLE AT SPACE**

**THINK ABOUT THE CHANGE IN TERRESTRIAL  
COMMUNICATIONS IN PAST 10 YEARS**



**DIGITALIZATION OF SHIPPING IS GOING TO  
INCREASE THE DEMAND OF DATA 20X BY 2020, AT  
THE SAME TIME PERIOD SATCOM CAPACITY IS  
EXPECTED TO BE DOUBLED.**

A satellite view of Earth from space, showing the Americas and the Pacific Ocean. The text "WORLDWIDE DIGITAL TERRESTRIAL COMMUNICATIONS" is overlaid in the center.

# WORLDWIDE DIGITAL TERRESTRIAL COMMUNICATIONS



## MISSION

Providing communication to all areas where cellular networks cease to exist

We keep our customers online

2011 – Oulu, Finland

# WORLD'S MOST EFFICIENT LONG DISTANCE COMMUNICATION



- 1 We reinvented the high frequency digital terrestrial radio.
- 2 We combined the latest cognitive software radio and mobile technologies.
- 3 Our intelligent radios form an independent autonomous network.
- 4 The network selects the best communication channel for you and keeps you connected. Always.

WE MAINTAIN  
**INDEPENDENT GLOBAL NETWORK,**  
CREATED BY OUR USERS

THE NETWORK OPERATES & RE-CONFIGURES AUTOMATICALLY





**KEEPING YOU ONLINE. ALWAYS.**

TEEMU VANNINEN, CTIO (CHIEF TECHNOLOGY INNOVATION OFFICER)

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