



SOUTHERN
AFRICA EUROPE
CEO DIALOGUE



The European House
Ambrosetti

SOUTHERN AFRICA EUROPE CEO DIALOGUE

7th Edition

Johannesburg – The Capital On The Park & **Virtual Platform**
November 26-27, 2020

BUILDING AN EXCLUSIVE, INFLUENTIAL COMMUNITY OF LEADERS FOR GROWING
THEIR ENTERPRISES, THEIR COUNTRIES, AND THEIR CONTINENTS

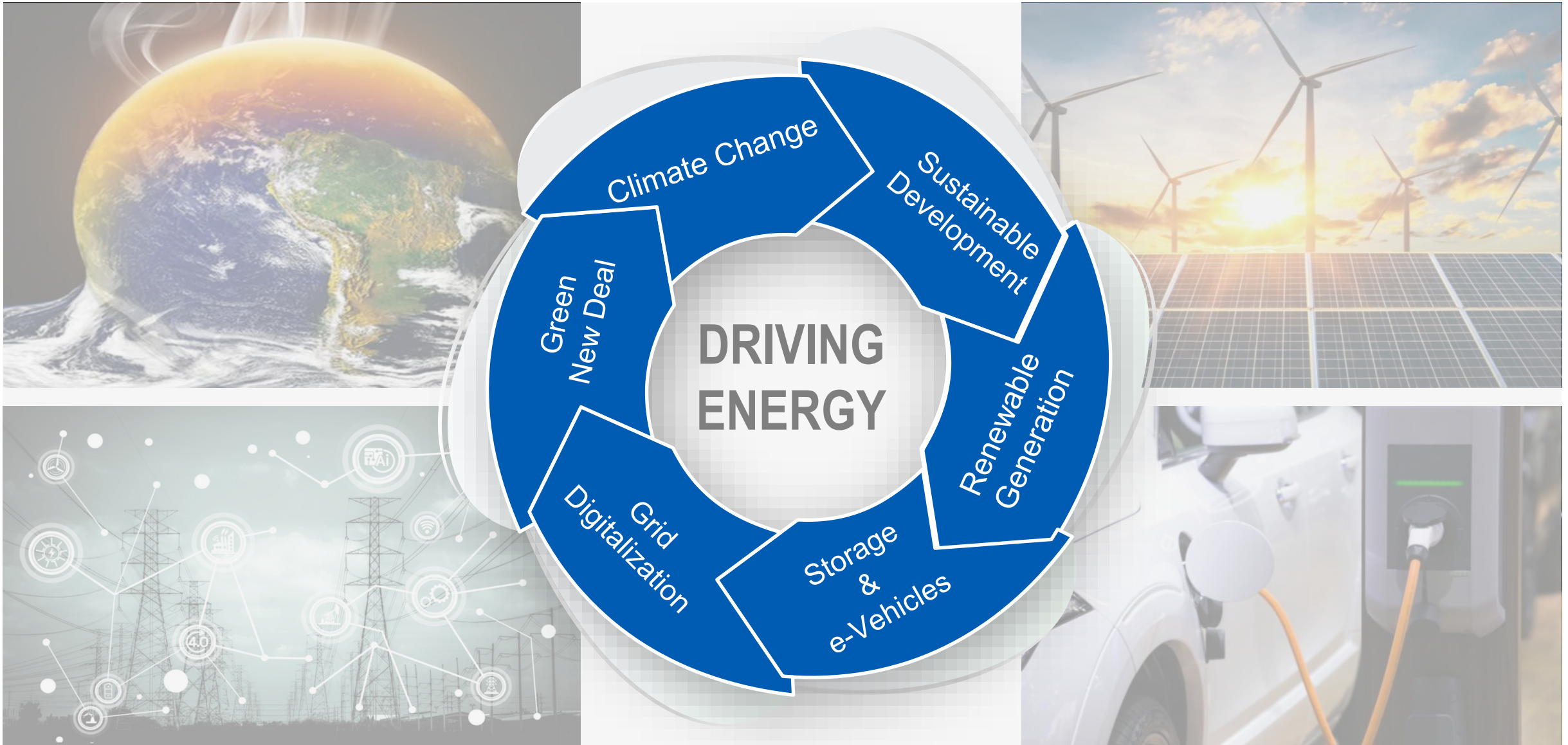
PRESENTATION BY GIOVANNI CERCHIARINI

Terna – Grid and Technology for the Energy Transition

November 26th 2020

Terna – Grid and Technology for the Energy Transition

Energy Transition Challenges



Climate Change Severe Weather Conditions



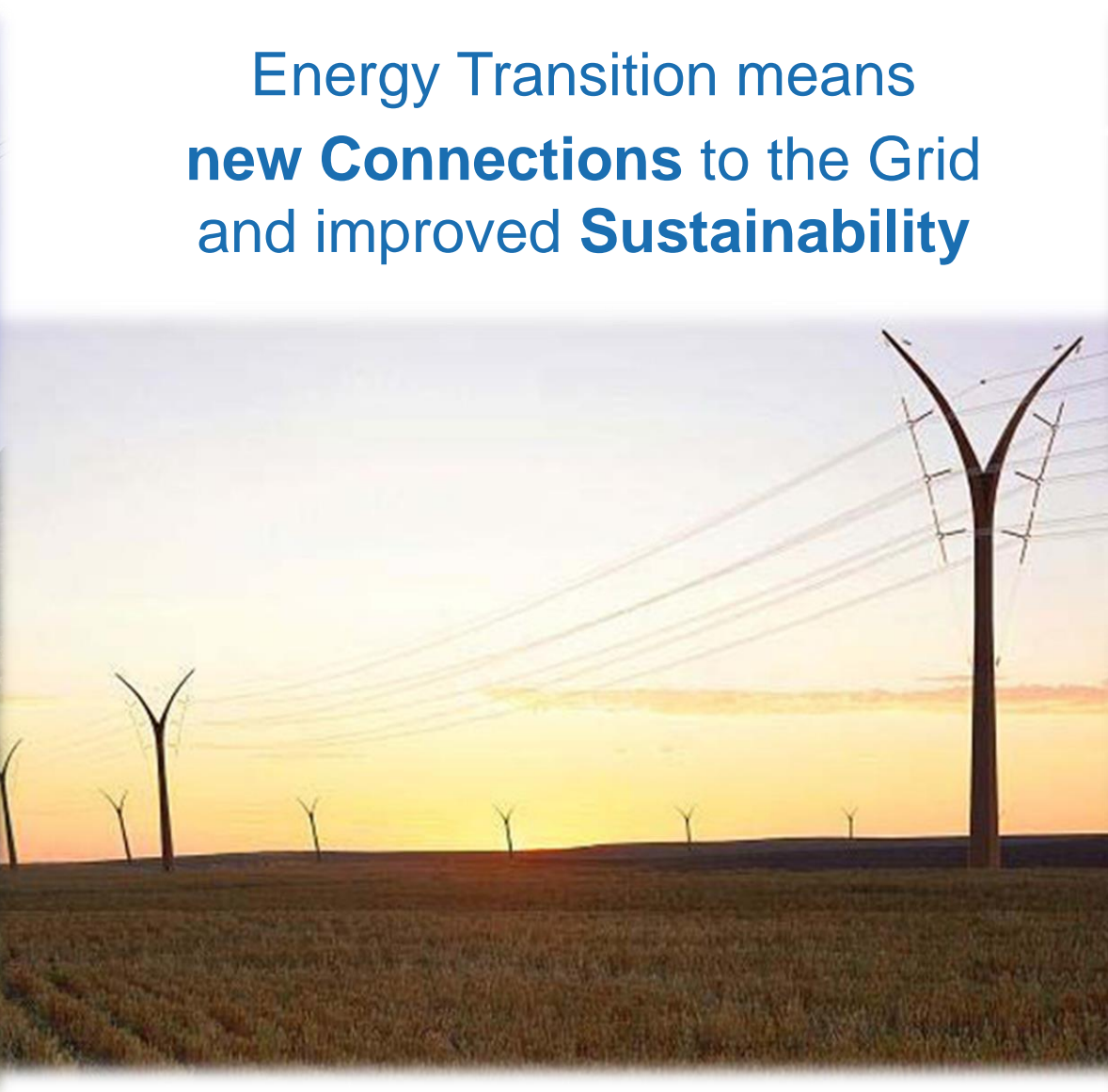
Not only bulk Energy Transport



Terna – Grid and Technology for the Energy Transition

Grid Efficiency - Technology for improving the Infrastructure Lifecycle and the quality of the Service

Energy Transition means
new Connections to the Grid
and improved **Sustainability**





The Energy Transition:
a shift from a deterministic
management of the Grid towards
Predictive and Probabilistic Tools

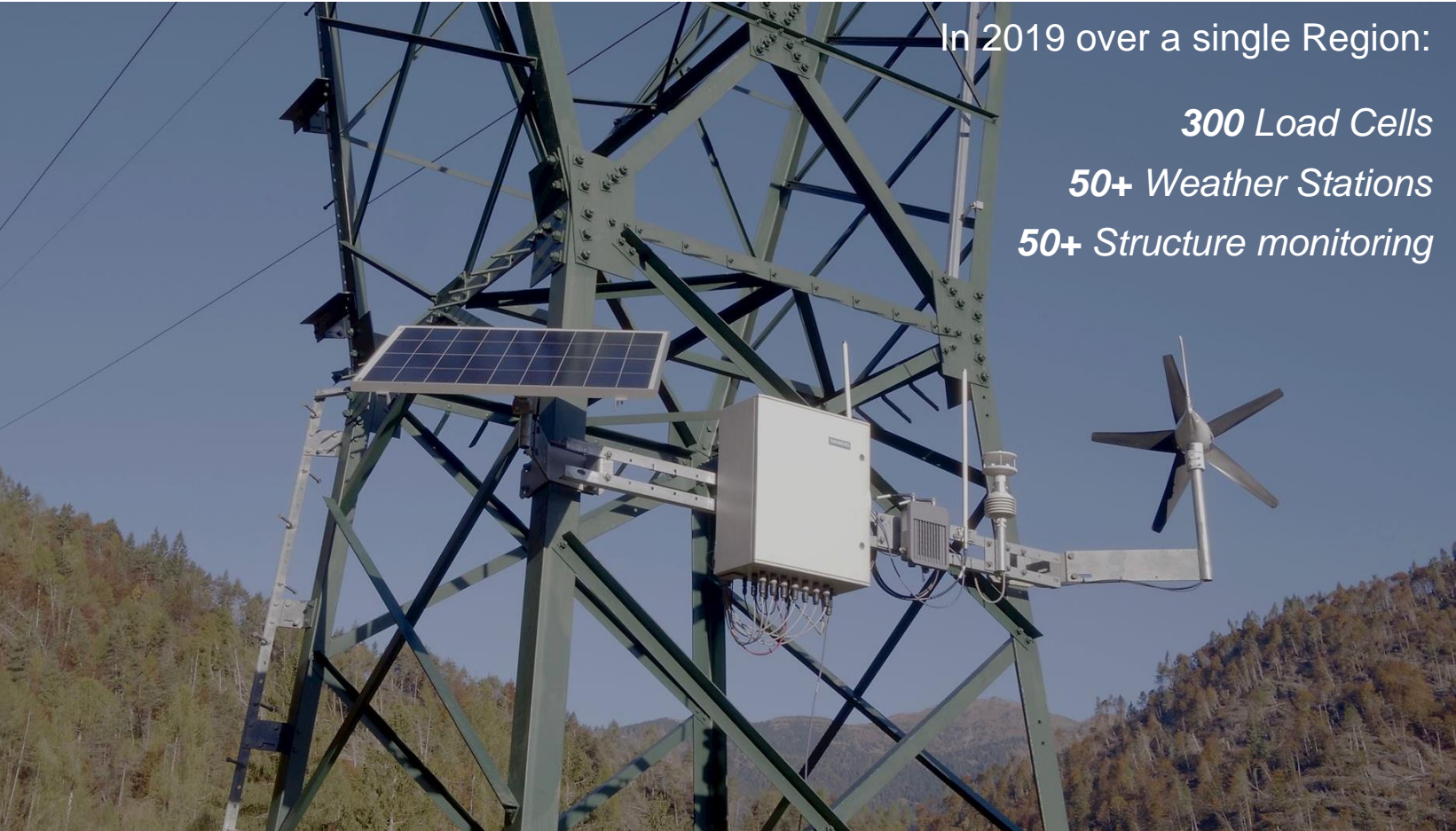
A smarter Grid is a key point for Resilience and compatibility with growing Energy Fluxes

In 2019 over a single Region:

300 Load Cells

50+ Weather Stations

50+ Structure monitoring



Terna – Grid and Technology for the Energy Transition

Early detection with emerging Technologies

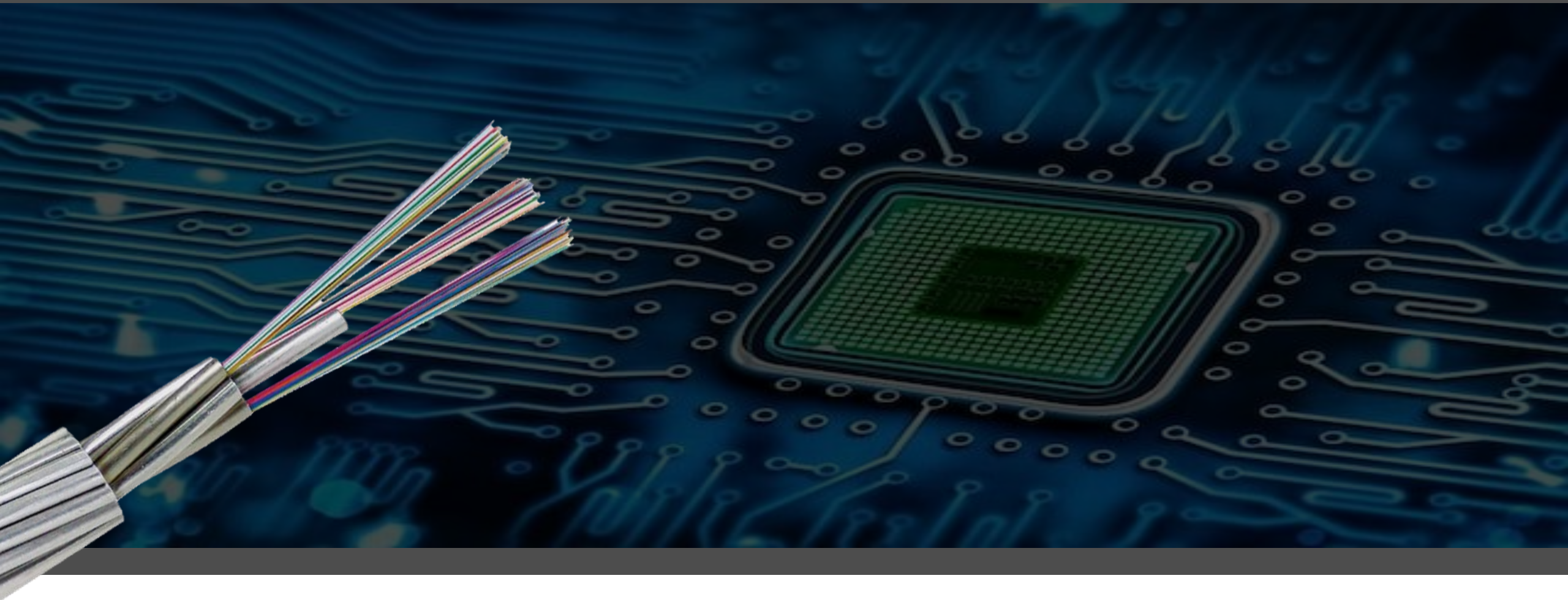
Not only Helicopters...



... Drones, Robots and Satellites to optimize maintenance and inspection operations



Microprocessors and Wireless/Optical connections for a **spread Data Mining**



The Grid:
**A National Connectivity
Backbone** fighting
the digital divide

