

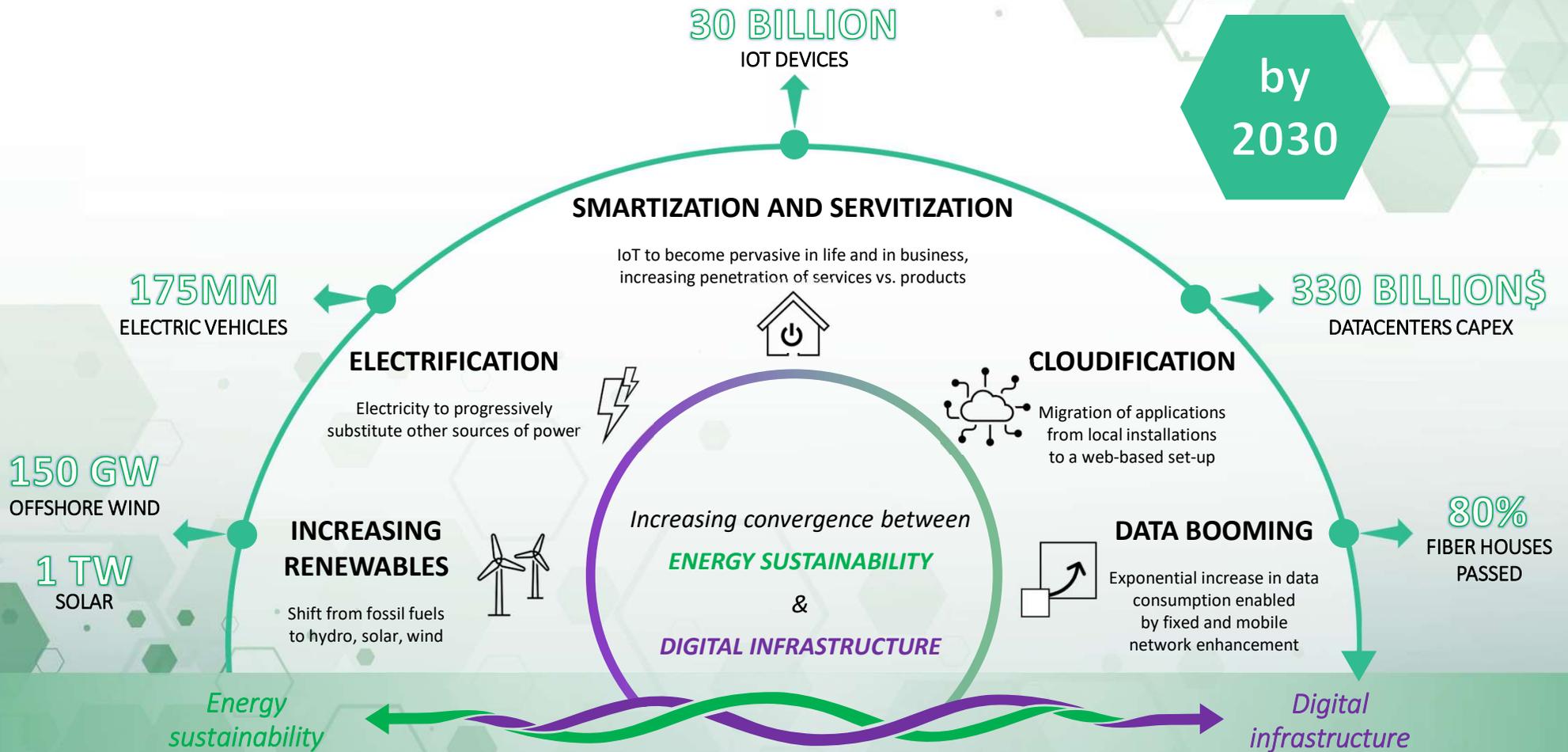


SUSTAINABILITY *BY* DESIGN *AND* INNOVATION

SRINIVAS SIRIPURAPU PhD
Chief R&D and Innovation Officer

Prysmian
Group Linking the
sustainable future

Market Drivers for Innovation



Innovation by Numbers

2022 NUMBERS



114*
million euros
invested in R&D

about **5,800**
patents covering
the main innovations

26
research
centres



250
product families
launched in 2022

50
collaborations
with research
centres and universities

1,000
professionals



(*) Operating expenses of Euro 101.4 million and investment of Euro 12.6 million.



Energy Transition

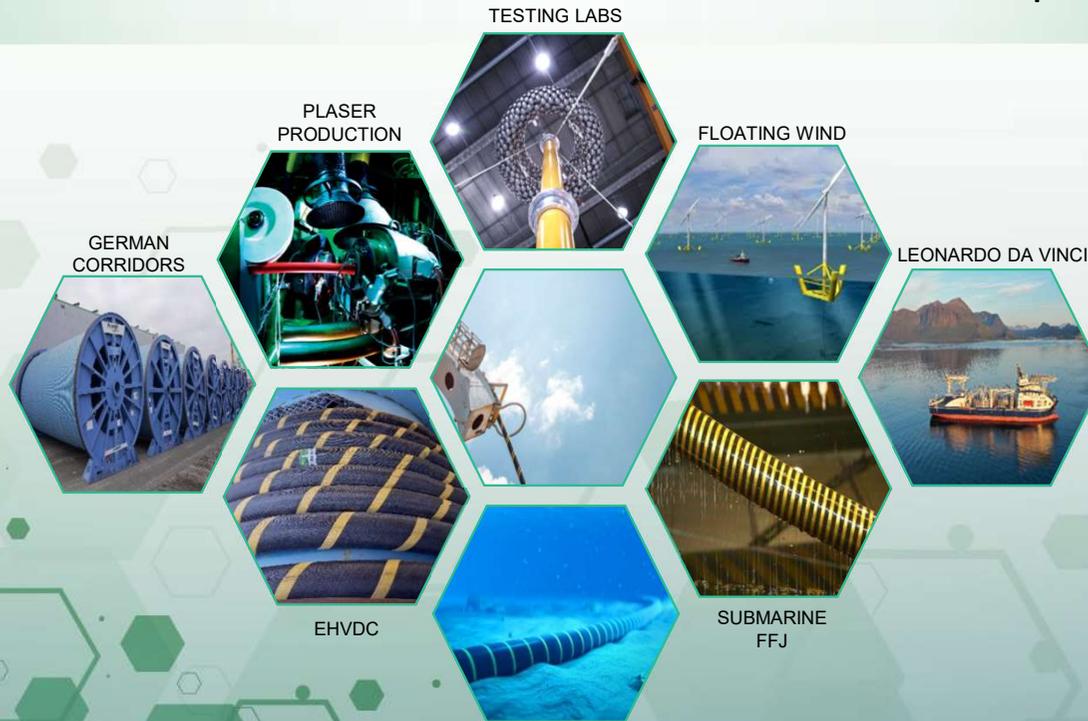
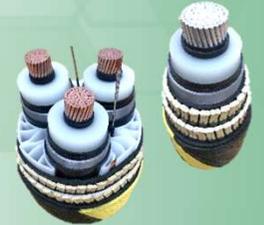
525 kV HVDC technology
interconnectors

High-depth submarine designs
offshore windfarms



2GW transmission
Land and Submarine cable systems
P-Laser and XLPE solutions

World's 1st high-modulus
synthetic armored cable
to enable installation depths
up to 3000 m



Grid Hardening & Smart Grids

Enhancing overhead transmission lines **capacity** and **lowering losses**

E3X coating for OHL lines allows **higher transmission efficiency at lower cost**

New **robot system** upgrades live already installed lines



Up to 25%
HIGHER AMPACITY



Lowers sag
INCREASED SAFETY

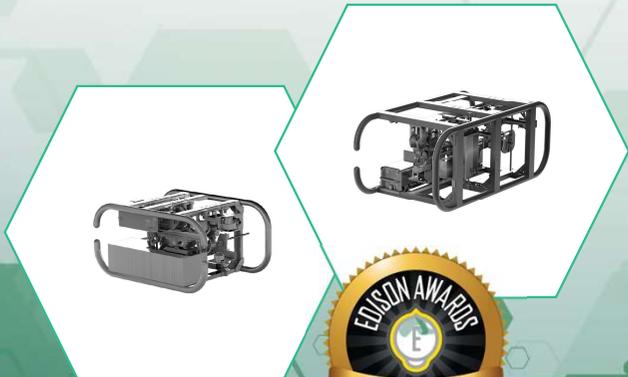


Up to 20%
LOWER LOSSES



Lowers ice adhesion
INCREASED RESILIENCE

EDISON AWARD FOR E3X® ROBOTS



Advancing monitoring with Electronics & Optical Sensing

Complete solution for UHV, HV, MV and LV monitoring and preventive maintenance



- ✓ Enhanced testing
- ✓ External Damage Risk Reduction
- ✓ Increased Asset performance
- ✓ Immediate fault detection



PRY-CAM PORTABLE

DISTRIBUTED TEMP SENSING



Renewables & Electrification

Innovative cabling solutions for **Wind and Solar farms** of the future

Cable and monitoring solutions
Long term reliability through Technology
Combination of **Efficiency & Sustainability**



PRYSOLAR



Powering the next **EV Charging Infrastructure**

A complete portfolio of **AC, DC and Fast Charging** cabling solutions & Novel paradigms in Electric Highways



MEGAWATT CHARGING



WIRELESS DYNAMIC CHARGING HIGHWAY

Prysmian Group

Linking the Future

Digital Infrastructure

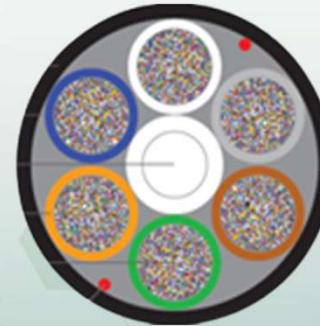
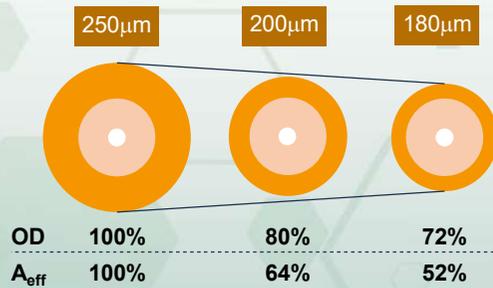
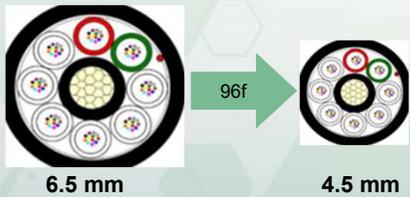
Microduct cables for **telco networks**
fiber densification



Microduct cables
with **industry first 180 μm fiber**
for a sustainable network
with product circularity

Ribbon Technology for
hyper-scale data centers

-  **Record breaking 6912f**
-  High flexibility
-  Faster installation



Maximum fibre count into the smallest cable possible by using **extremely flexible fibre ribbons** that can be rolled up for high packing densities or laid flat for ribbon splicing

Design 4 Sustainability EcoCable



6
MEASURABLE & INTERNATIONALLY RECOGNIZED CRITERIA



GREEN STRENGTH