ELECTRIFY THE FUTURE

WINDS OF CHANGE

17 FEBRUARY 2021







INNOVATE TO ELECTRIFY

100% DEDICATED TO ELECTRIFICATION

+€100m R&D Expenses



Technical Experts

Innovation per year

ANSWERING CUSTOMER NEEDS

CUSTOMER EXPERIENCE

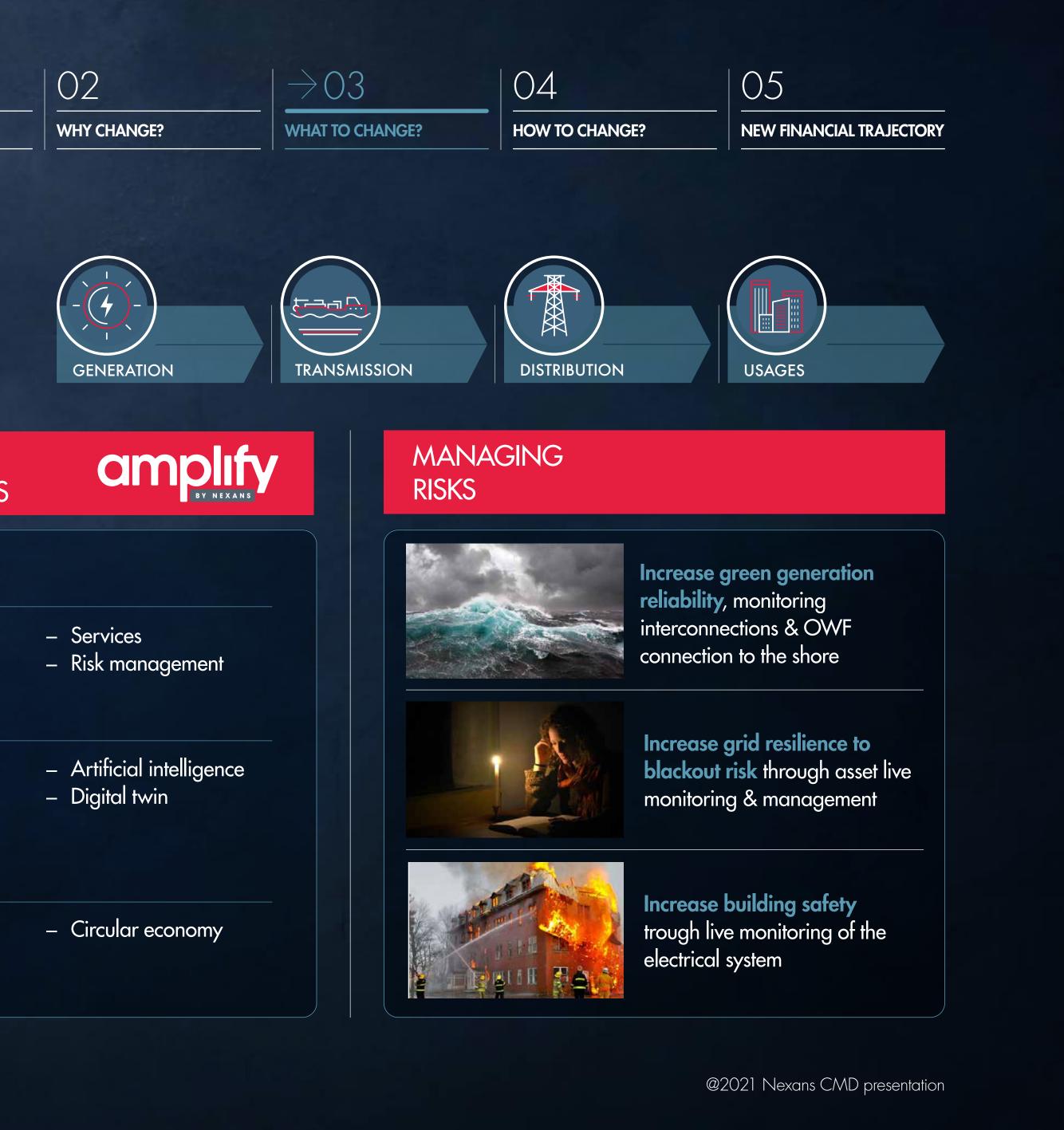
- Supply chain
- Smart products

DIGITALISATION

- Industry 4.0
- Connected products (IoT)

SUSTAINABILITY

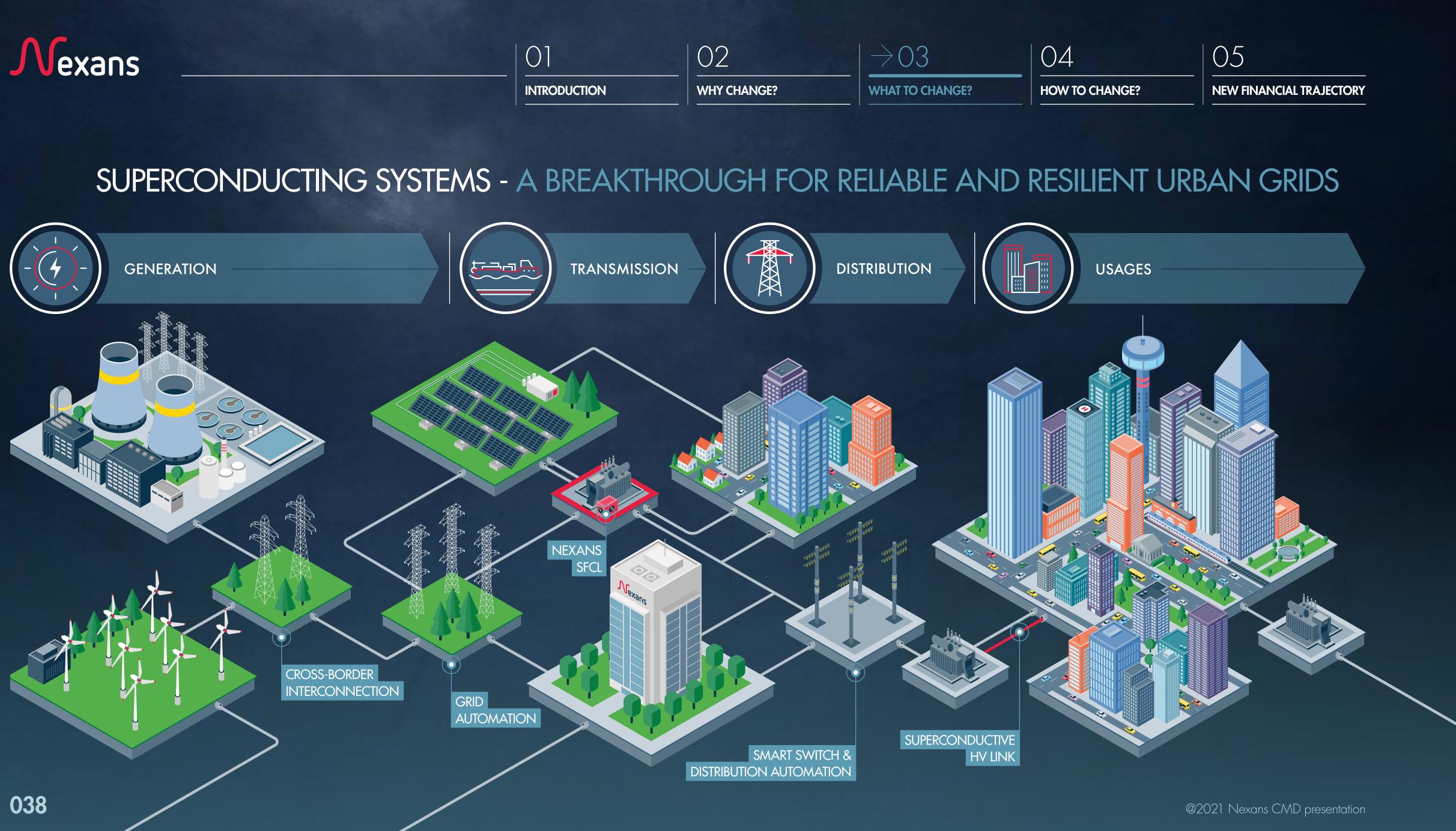
- Recycling
- Carbon neutrality















SUPERCONDUCTING SYSTEMS - A BREAKTHROUGH FOR RELIABLE AND RESILIENT URBAN GRIDS



 $1-3\,\mathrm{GW}$

90% less civil work

thermal and electromagnetic signature







0]INTRODUCTION

SUPERCONDUCTING SYSTEMS - A BREAKTHROUGH FOR RELIABLE AND RESILIENT URBAN GRIDS





 \rightarrow 03

WHAT TO CHANGE?

04

HOW TO CHANGE?

05

NEW FINANCIAL TRAJECTORY

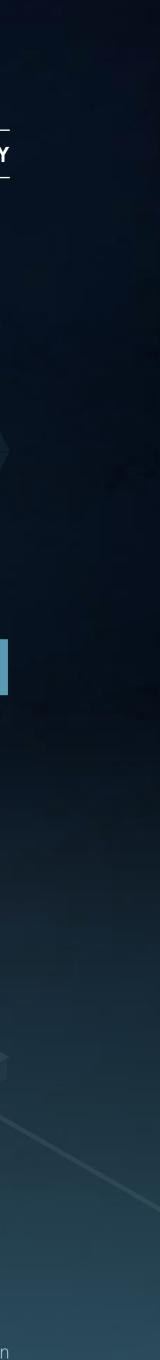
DISTRIBUTION

NEXANS SUPERCONDUCTIVE FAULT CURRENT LIMITERS (SFCL)

- Divide fault probability by a factor 4

- Allow distributed generation integration

- Keep existing Network

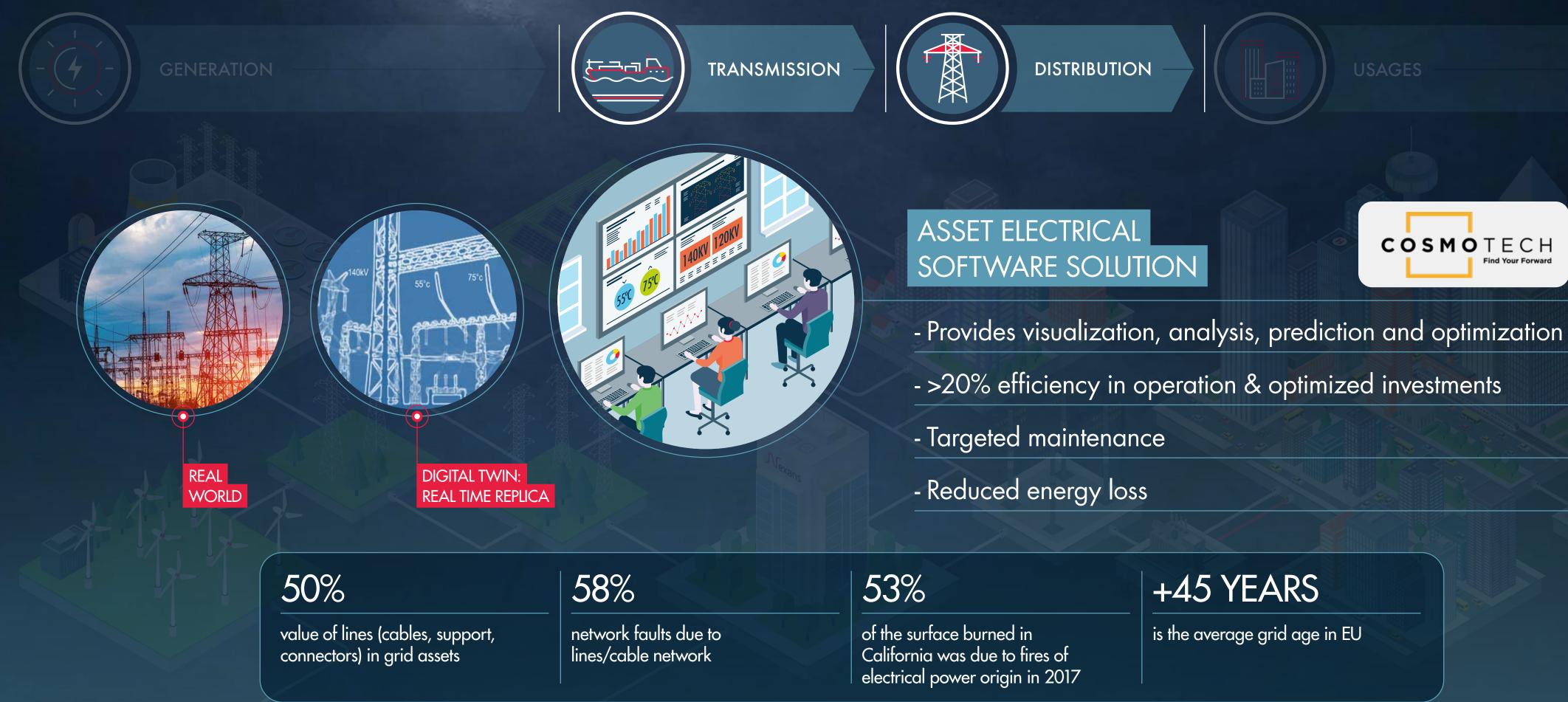




A DIGITAL TWIN IS A UNIQUE VIRTUAL MODEL OF A REAL GRID

 \bigcirc

INTRODUCTION



041



 \rightarrow 03

WHAT TO CHANGE?

04

HOW TO CHANGE?

05

NEW FINANCIAL TRAJECTORY





 \bigcirc INTRODUCTION

NEXANS STRATEGY FOR INT DEVELOPMENT ENABLING AN HOLISTIC APPROACH OF THE GRID RISKS & CHALLENGES

TRACKING #[

Track location, characteristics and status of valuable grid components.

- Shorten operations time
- Stock management
- Anti Theft
- Cost avoidance

Covered Assets:

- Cable drums
- Accessories

042

#02 MONITORING ASSETS

safety & reliability.

- CAPEX avoidance

Covered Assets:

- Cables
- Network components

25% NEXANS CONNECTED PRODUCTS BY 2024 (IoT)



 \rightarrow 03

WHAT TO CHANGE?

04

HOW TO CHANGE?

NEW FINANCIAL TRAJECTORY

05

Monitor the electrical assets during their lifetime to predict failures, ease maintenance increasing

- Reduce risks of grid failure - Prevent fire risk in buildings - Maintenance costs control - Electrical loss reductions

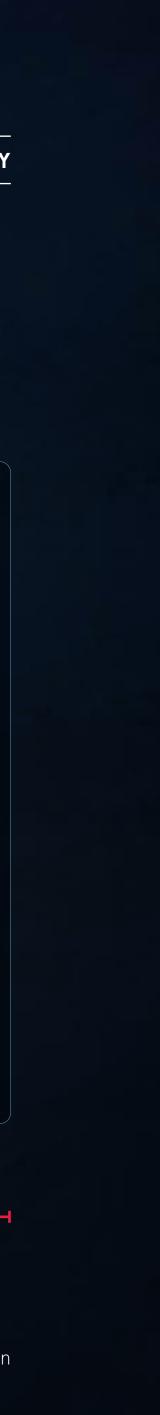
MANAGE ASSFTS #()

Optimize the use of grid functioning, from generation to usage. Make live decisions on energy routing.

- Increases grid resilience
- Maximize use of generated electricity
- Balance energy offer & demand

Covered assets:

- Grid sensing Smart grids
- HV & MV infrastructures







INNOVATE TO ELECTRIFY AMPLIFY – OUR IMPACT THANKS TO OUR PARTNERS

