EDP
AT A
GLANCE

A leading company in the energy sector
Top 4 worldwide in renewable energy

Present in 14 countries
Largest company in Portugal

10M customers in electricity
12K employees

EDP
Digital has been the cover of **10 editions** in the last **12 months**
A VIRTUALLY NEW WORLD

The largest companies in the world are digital native companies.

World largest listed companies by market capitalization (Billion USD)

**2006**
- Exxon Mobil: 410
- General Electric: 340
- Gazprom: 250
- Microsoft: 240
- Citigroup: 230
- Bank of America: 230
- Royal Dutch Shell: 220
- BP: 215
- PetroChina: 210
- HSBC: 205

**2018**
- Apple: 1,041
- Amazon.com: 915
- Alphabet: 845
- Microsoft: 820
- Berkshire Hathaway: 515
- Facebook: 498
- Alibaba: 457
- Tencent Holdings: 425
- JPMorgan Chase: 385
- Exxon Mobil: 334

Source: Bloomberg, 2006; 2018
PROFOUND CHANGES ROCKED OUR WORLD

Vatican Square, new Pope announcement

2005 2013
20% of the energy retail market will be seized by non-utility companies and digital disrupters, by 2020

Source: IDC, 2016
THIS IS HOW WE DO IT
In 2018 EDP started the journey towards Digital Transformation with edpX project that challenged the organization to adapt and respond to this new context.

Source: The World Bank
WHAT WE HAVE ACHIEVED WITH EDP X?

1. GLOBAL ENGAGEMENT
   - All BU’s & Geographies
   - > 1.500 employees during 6 months

2. DIGITAL VISION DEFINED
   - Digital ambition “Intelligent Power”

3. DIGITAL ASSESSMENT
   - > 500 digital initiatives identified within EDP Group

4. STRATEGIC GUIDELINES
   - 14 Digital Priorities & 35 Big Bets

5. TRANSFORMATION GOALS
   - 12 Digital Roadmaps (’18-’22)

6. DIGITAL FACTORY
   - New collaborative workspace for digital initiatives

7. DIGITAL ORGANIZATION
   - Digital Global Unit definition based on hub&spoke model

8. NEW WAYS OF WORKING
   - 18 prototypes based on agile & design thinking methodologies
OUR OPPORTUNITY @ EDP PRODUÇÃO

1056 employees

49,0 yo/avg

Source: HR, 2018

1992
Alto Lindoso Power Plant
1 Power Plant (repowering)

1995

2010
5 New Dams + 5 Power Plants (RP)

2012
3 Power Plants (RP)

2017
5 Dams + 2 Power Plants (RP)

CAD & GİS

CAD & analog
PRE-DIGITAL DATA

13 Companies aggregated in 1975 to create EDP
7 physical archive hubs
WHAT WE HAVE & HOW WE DO IT

(MAR 2017)

DUPLICATION

40% - 60% of the data in different departments

IDENTIFICATION

> 75% now who to ask for the data (at least 1 source)

INDIVIDUAL

Tasks perceived as highly complex and individual

Share

- Documents sharing
- Email
- Network drive
- Corporate sharing platforms
- Intranet
- Hard Drive
- SMS / Whatsapp
THE MISSION

Ensure, transversely, the collection, storage, manipulation, recording, visualization and analysis of spatial data.
Portal as one-stop-shop for mapping products.
HISTORICAL DATA – OUR LEGACY

- 70 Dams
- 466 km²
- 65 years
INTEGRATED PLAN OF ENVIRONMENTAL MONITORING

The largest and longest environment study in EDP

- 3 000 km²
- 12 Environmental descriptors
- 10 Compensation measures
- ≈1000 Monitoring Points
  - 80% Birds, Flora, Bats and Wolves
- 2 FTE EDP
- 52 Scientific partners, Developers & in-field partners

A program for (up to) 75 years (400k€/year)

The numbers

The outcome

- Mobility & in-field data integration
- Activity dashboards
- Transparency & report to the Authorities
- Scientific value, program update & better cost effective
- Information with a spatial context
An element of innovation, dissemination and integration of information capable of creating value to employees, Company and partners, using a sustainable rationality of resources.
Many utilities see the digital revolution as a threat to their business model, but massive opportunities await those able to transform themselves ahead of the curve.
WHAT WE HAVE ACHIEVED WITH GEOPRO?

1. GLOBAL ASSESSMENT
   - State of the information and procedures

2. ROADMAP
   - Oriented by a Mission and a Vision.

3. CORPORATE INTEREST
   - Supported by a strong business case

4. DIGITAL OUTCOME
   - New digital processes that bring more rational use of our resources

5. INTEGRATED SYSTEM
   - Share information from and to everyone

6. GIS CULTURE
   - Be close to the user and adapt to the real needs

7. ORGANIZATION DNA
   - Become THE tool to use for all the organization

8. CULTURAL TRANSFORMATION
   - Be prepared to be agile, transparent and to excel.
THANK YOU