

SUEZ RECHERCHE & INNOVATION

11/01/2021





TURN IDEAS INTO VALUE

SUEZ Group

Key figures and main activities

Key figures

90 000 employees working in 5 continents



18 B€ turnover



Over 450 000 industrial and business customers

Main activities

Smart & sustainable management of the **water** cycle, smart water solutions



Recycling and **waste** recovery to produce new resources

Engineering, design and **construction** of treatment infrastructure



Innovative solutions for **smart and resourceful cities**

Objectives for tomorrow



Double

The volume of recycled plastics



+ 20 %

Production of secondary raw materials



+ 10 %

Production of renewable energy



33%

Management positions filled by women Group-wide

The R&I community in SUEZ

Key figures



8 R&D centers
9 labs & expertise centers



9 countries



1 400 technical experts
530 R&D permanent staff



3 947 National Patents
857 Patent Families



Budget 120 M euros

Roles of the community



Design breakthrough innovations via **R&I operations** (innovative projects, operations with academic and industrials)



Develop expertise to be able to **tackle specific issues and provide Technical Assistance**

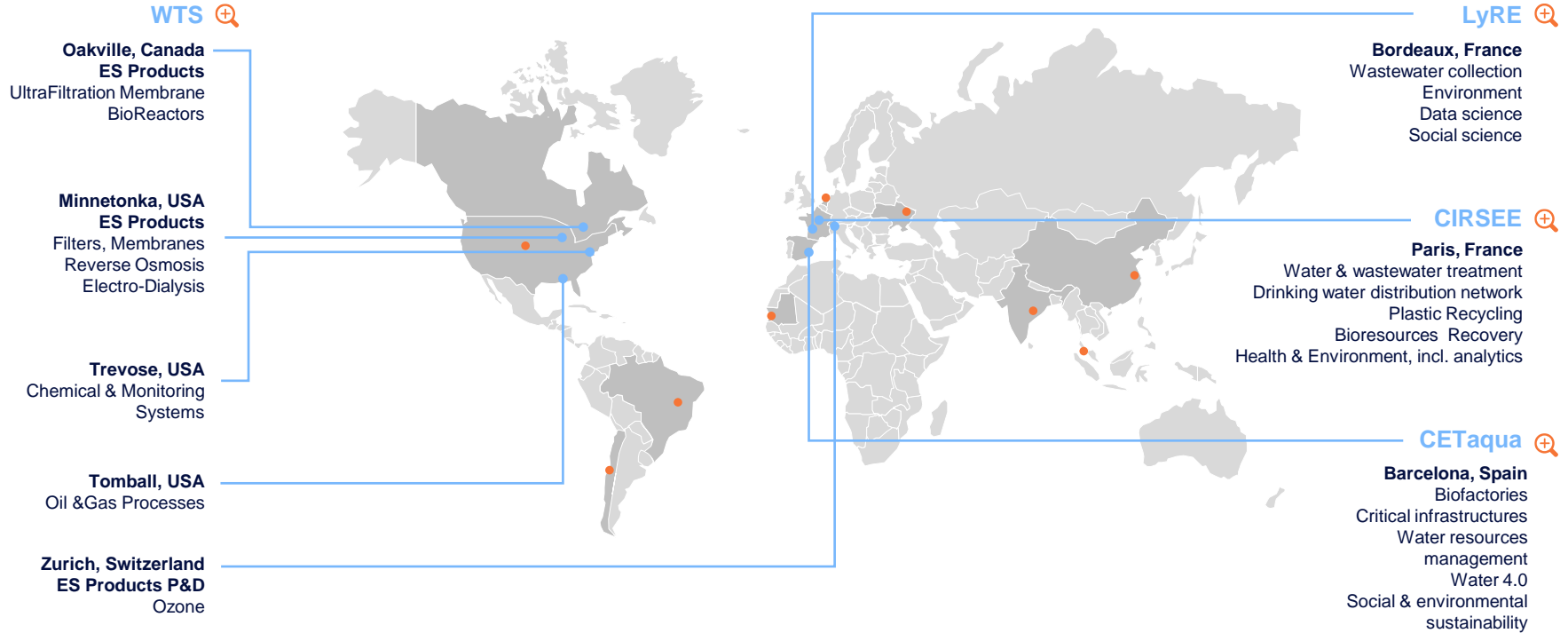


Maintain the Group's technical and scientific know-how

A structured network of R&D and labs centers

Building on complementary areas of expertise

- R&D CENTERS
- LABS & EXPERTISE CENTERS



R&I partnerships



Catalyze the innovation of Suez entities and research centers on the Group's priority topics

- Specific partnerships with universities or RTO
- Answers to R&I calls for collaborative projects at European and national level
- PhD students, 6 new PhD launched / year in France



CREATE & STRENGTHEN PREFERRED LINKS WITH MAJOR SCIENTIFIC PARTNERS TO MEET TOMORROW'S R&I CHALLENGES

- Make the best use of collaborative innovation platforms (KIC, SPIRE, EIT,BBI ...)
- Facilitate the cooperation of SUEZ entities with partners (signature of framework agreements)
- Collaborate through strategic topics (7 Chairs in France)

Objectives for tomorrow



Optimize external funding sources



Strengthen and lead an international network of strategic partners



Get all Suez Entities involved to foster our priorities topics

R&I partnerships : Global vision



Key Figures

2019 European Projects

100 M€ R&I on 13 projects granted
7 M€ SUEZ participation

Universities and RTO partnerships

+ 350 Partnerships on going
Bes'step (INRAE), Refract'o (Toulouse Biotechnology institute)
Biowaste recovery (LBE Narbonne/INRAE – Region occitanie)

Academic Chairs

Participation in 7 chairs (Elsa Pact, Eau pour tous, Trace, Prairie, Labmet, ePPP, OpT, IMREDD)



Funding programs

EIT- Raw Materials

Climate KIC

Horizon 2020

LIFE

Interreg

National Funding



Key partnerships

Framework agreements

BRGM, INRAE, CEA, Fraunhofer, VITO, KWR,
EAWAG, Sorbonne Université

Academic Chairs

AgroParisTech, Montpellier SupAgro, CEA

Associations and international entities

IWA, GWRC, ISWA, IDA, IAO, SIWW

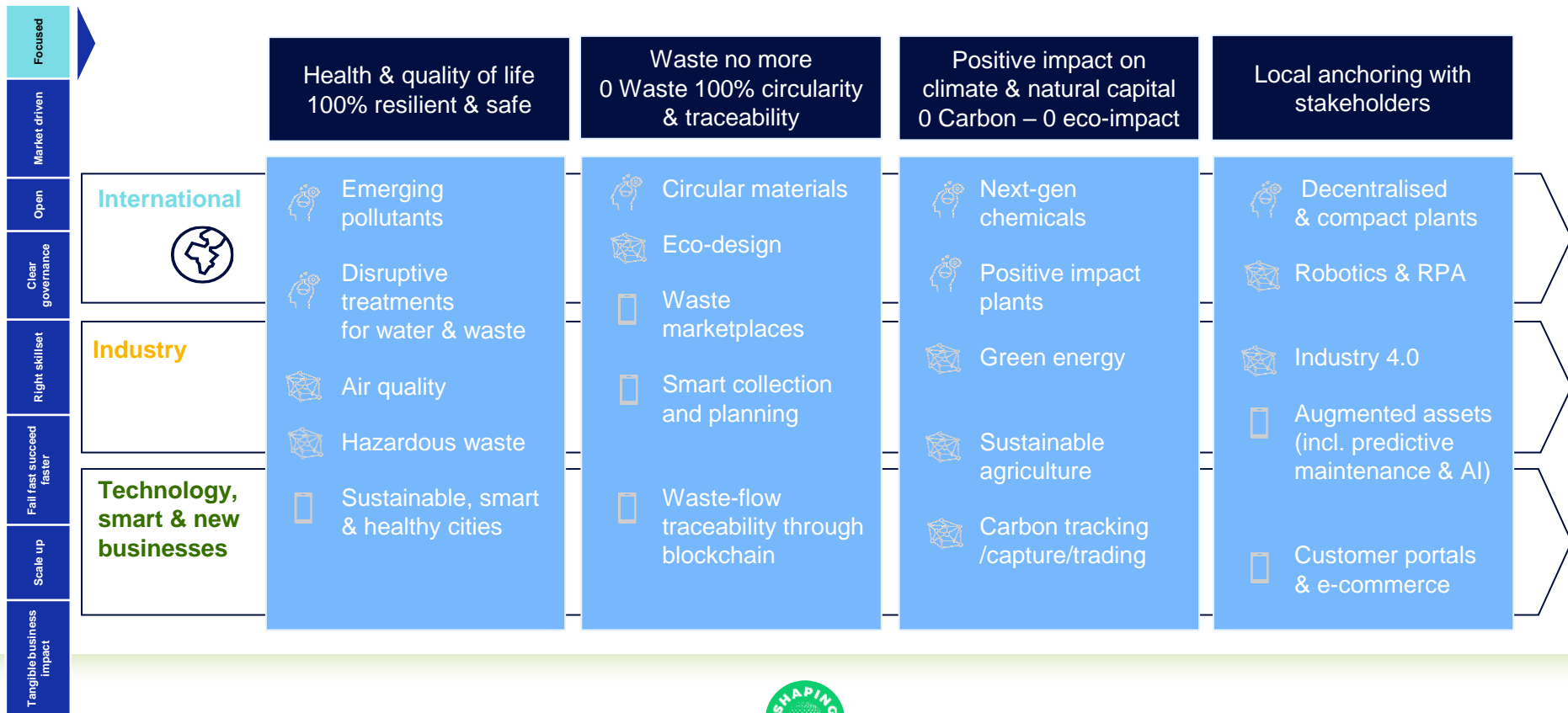


Collaborative platforms



SUEZ's value proposition

A greater selectivity



Priority topics & projects

**Priorities
SUEZ 2030**

Topics	Ambition / Innovation initiative	Main collaborative projects
Plastics	<ul style="list-style-type: none"> Collection/logistics, sorting/pre-treatment Chemical recycling (depolymerisation, dissolution...) Enzymatic recycling 	<ul style="list-style-type: none"> ALL-PLAST (2016 / 2,5M€) RECYF (2018 /65k€) CHARAMBA (2019 / 1,5M€)
Smart	<ul style="list-style-type: none"> Network cleaning technologies Online new sensors Big data & Digitalization of Citizens' experiences 	<ul style="list-style-type: none"> INSTAnT (2017 / 1M€) NAIADES (2018 / 5.7M€) AQUA3S (2018 / 6.8M€) MARLIT (2019 / 1.2M€) B-WaterSmart (2019/ 15M€)
Wastewater treatment Water Reuse	<ul style="list-style-type: none"> New governance model Reducing energy consumption and GHG emissions Recovering nutrients & producing energy 	<ul style="list-style-type: none"> Microplastic (2015 / 3.3M€) LIFE ENRICH (2016 /2.7M€) CREDIT (2018 /1.8M€) SEArcularMINE (2019/5,8M€) ULTIMATE (2019 / 13.5M€)
Decentralised systems	<ul style="list-style-type: none"> New governance model : Living Labs Interaction between centralized and decentralized systems Development of new « soft technologies » 	<ul style="list-style-type: none"> DECISIVE (2015 /8.8M€)
Organic Waste	<ul style="list-style-type: none"> Supply chain & logisitcs (urban area) Composting and anaerobic digestion new technologies Biorefineries + High value conversion & transformation 	<ul style="list-style-type: none"> BIO FOREVER (2015 / 16M€) DIGESTAKE (2017 / 2M€) AFTERBIOCHEM (2019/33M€)
Metals & Rare earths	<ul style="list-style-type: none"> Optimize collection/logistics Improve dismantling technologies & recovery rates Guarantee quality of recycled material 	<ul style="list-style-type: none"> DISPLAY (2016 / 1.8M€) ReLieVE (2019 / 4.7M€) VALOMAG (2019 / 2.5M€)

Health
quality of life

0 waste
100%
circularity

Positive
impact on
climate

Financial &
environmental
performance

MERCI

