Finding New Value by Putting Stranded Data to Work

Meeting of Minds – November 18h, 2020

Fabrice SERVANT
Construction, Cities and Territories Director
Our company

A purpose-driven company
Combining Art, Science & Technology for a more sustainable world

20,000 passionate people
140 nationalities
195 sites
One global R&D / 69 labs

Long-term driven
Majority shareholder control
Revenue: €4,056 millions*
Operating margin: 32%*
*Figures as of FY 2019 / Non-IFRS

12,600 partners
Software, Technology & Architecture
Content & Online services
Sales
Consulting & System Integrators (C&SI)
Education
Research

270,000 customers
11 industries in 140 countries
25 million users
Game-changing
3DEXPERIENCE platform

Game-changing 3D EXPERIENCE platform

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Our legacy

1981
3D Design

1989
3D DMU
Digital Mock-up

1999
3D PLM
Product Lifestyle
Management

2012
3DEXPERIENCE®
platform

2020
Virtual Twin
Experience of
Humans
Virtual world extends and improves real world
Cities…

City of Ur, Mesopotamia (current IRAQ). 3800 BC

Smart city or smart silos of smart objects?
Digital continuity – People, data, processes

Smart Systems

Multi-scale
COVID-19: Exponential Increase of Digital Adoption

“Digital technologies have also enabled governments to make rapid policy decisions based on real-time data and analytics, to enhance the capacities of local authorities for better coordination and to deploy evidence-based services to those who need them most.”

United Nations Department of Economic and Social Affairs, April, 2020
Propagation de l’épidémie

**Nombre de reproduction effectif**

\[ R(1) \]

\[ (Au : 2020-01-01) \]

\[ 0.49 \]

**Nouveaux cas confirmés**

\[ 67.0 \]

\[ (Au : 2020-01-01) \]

**Hospitalisés**

\[ 281.0 (+12.0) \]

\[ (Au : 2020-01-01) \]

**En réanimation**

\[ 21.0 (+3.0) \]

\[ (Au : 2020-01-01) \]

**Retours à domicile**

\[ 13460.0 (+12.0) \]

\[ (Au : 2020-01-01) \]

**Décès (hospitalisés)**

\[ -3709.0 (0.0) \]

\[ (Au : 2020-01-01) \]

Epidémie

\[ \text{Nombre} \] \[ \text{en réanimation} \] \[ \text{retours à domicile} \] \[ \text{décès (hospitalisés)} \] \[ \text{confirmés} \]

\[ \text{Hospitalisés} \] \[ \text{En réanimation} \] \[ \text{Retours à domicile} \] \[ \text{Décès (hospitalisés)} \] \[ \text{Cas confirmés} \]

\[ \text{Evolution} \]

\[ \text{Graphique} \]
City of Tomorrow

“The battle for a more sustainable future will be won or lost in Cities”

An Equitable Prosperous Sustainable City

- Safe & Healthy
- Resilient
- Productive
- Planned
- Green
- Inclusive
- Cities able to withstand and recover from crisis
- Business Efficiency and Attractiveness
- Clear City Strategy & Lean Operation
- Make Cities more livable
- Environmentally friendly and carbon efficient
- Social and equitable

UN Sustainable Development Goals (SDG). Urban Thematic Areas
Levers for a sustainable city

- Building energy efficiency
- Carbon free transportation
- Incentivize

- Waste Management 15%
- Buildings 55%
- Transportation 35%
Assessing Buildings’ Energy Efficiency

Focusing on Energy Losses

Project JEM « Jumeau Énergie de la Métropole » (Metropole Energy Virtual Twin) by
Assessing Buildings’ Energy Efficiency

Project JEM « Jumeau Energie de la Métropole » (Metropole Energy Virtual Twin) by
Making Rennes more energy efficient
Promoting active mobility in Singapore
Promoting active mobility in Singapore

3.2.2 Covered Walkway & Cycling Path

Where there is sufficient space and a cycling path is planned next to the covered walkway, a 2m-wide dedicated cycling path is preferred.