Digitalizing Infrastructure
Construction and Maintenance
“3D printing has been overhyped for home use, but underappreciated for its industrial possibilities.”

Carl Bass, CEO of Autodesk
Industry 4.0

THE OPEN WEB
An open source design ecosystem with an R&D team of thousands, where no problem every needs to be solved twice.

AUTOMATION & DEEP PARAMETRICS
Taming complexity with labour saving algorithmic and parametric design. The end of one-size-fits-all.

DISTRIBUTED, DIGITAL FABRICATION
The factory of the future is everywhere. Designed globally, made locally.

DATA FROM EVERYWHERE
Better and more ubiquitous data from sensors and devices everywhere feeding into design and operation.
Mass Customization

« Le client a le droit de choisir sa couleur à condition que ce soit le noir »

Première automobile fabriquée en grande série.
Chaine de fabrication inspirée des principes du Taylorisme.
15 millions d'exemplaires.
Health & Safety Risk Reduction
Cost Optimization

- Less concrete used
- No molds
- On-site production
- Durability of Ultra-High Performance Concrete
The mission of XtreeE

XtreeE aims at developing technologies that make quality & innovative construction more affordable:

- Help construction and industrial firms design and produce 3D-printed products;

- Lease connected 3D-printing systems:
  - 3D-printing heads
  - Fixed 3D-printing units
  - Mobile 3D-printing units

- Help our clients optimize the use of their 3D-printing systems and maximise their return on capital employed.
The Team
Our Skills

Architecture

Civil engineering

Material science

Robotics / Computer science

Development / Management

Our Partners

LafargeHolcim

DIBOTICS

DASSAULT SYSTEMES

INRIA

ABB

Digital Knowledge
Projects
Benefits for Railway Operators
What XtreeE and Large-Scale 3D Printing can bring to Railway Operators

• Personalized stations and public spaces, at a controlled cost

• A better acoustic protection of neighbours

• Optimised bridges, better integrated into their environment

• Optimised guideway structures and slabs

• Easier and cheaper maintenance thanks to on-site 3D printing systems
XtreeE
The large-scale 3d