# Construction: Let's build changes!

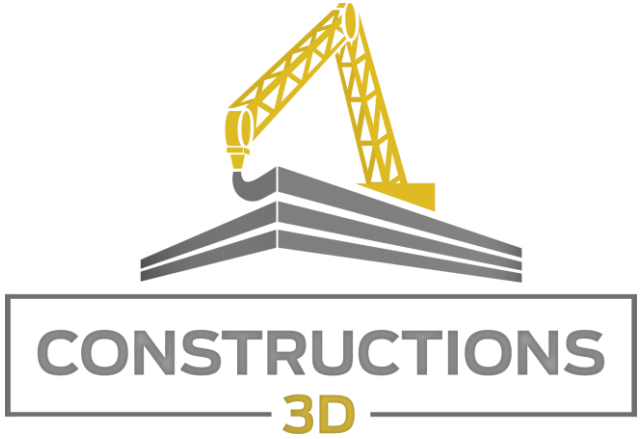
## Towards a resilient construction sector

## Innovation & Digitalization

### and their impact on business models

**CONSTRUCTION 3D PRINTING**

MOTTE Antoine, CEO
Machines-3D / Constructions-3D

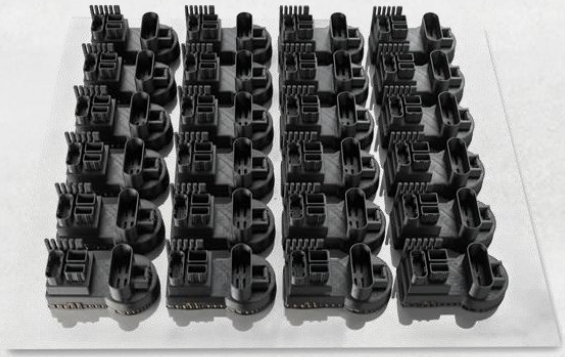

CONSTRUCTIONS
3D

Constructions-3D

# 3D Printing has revolutionized all forms of manufacturing

Ease of Customization

Increased Production Speed



http://www.javelin-tech.com/3d-printer/applications/manufacturing-end-use-parts/

Topological Optimization

http://www.3dnatives.com/optimisation-topologique-3d-07032016/

# Why in Construction ?

It is even an ideal target …

- Centuries-old processes with archaic modes of management that is unable to see the iceberg,
- Inability to serialize in the model of the Second Industrial Revolution,
- An old economic and environmental model that has ran out of steam,
- A lack of knowledge of digitization by the conventional actors,
- Demands for new solutions of massive construction coming from exponential population growth and migrations.

# Constructions-3D has the following set of objectives:

[redacted]
*(50% reduced material…)*

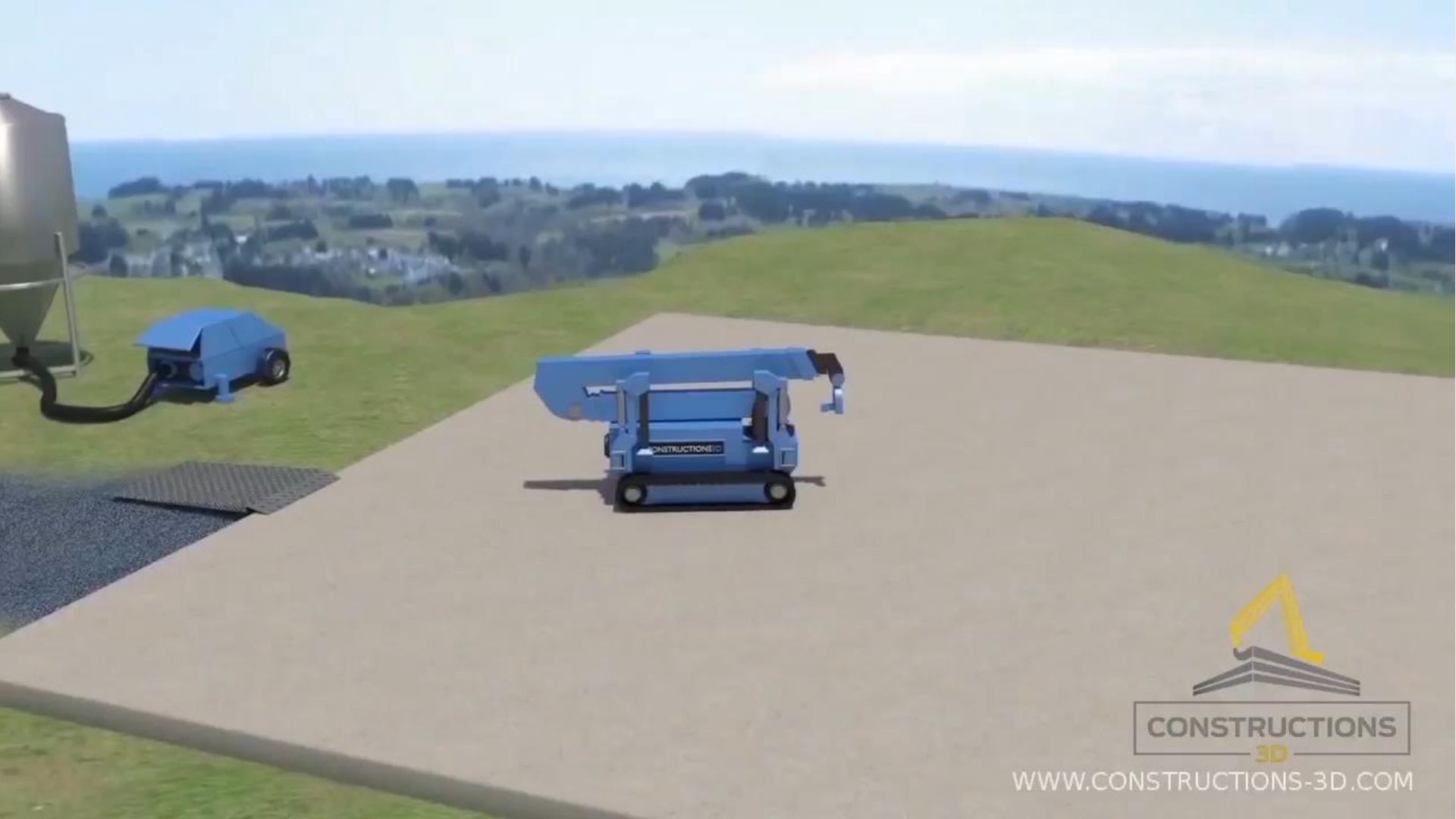
[redacted]
*(Overcome the constraints of the current tools in the construction industry…)*

[redacted]
*(cost divided by 10…)*

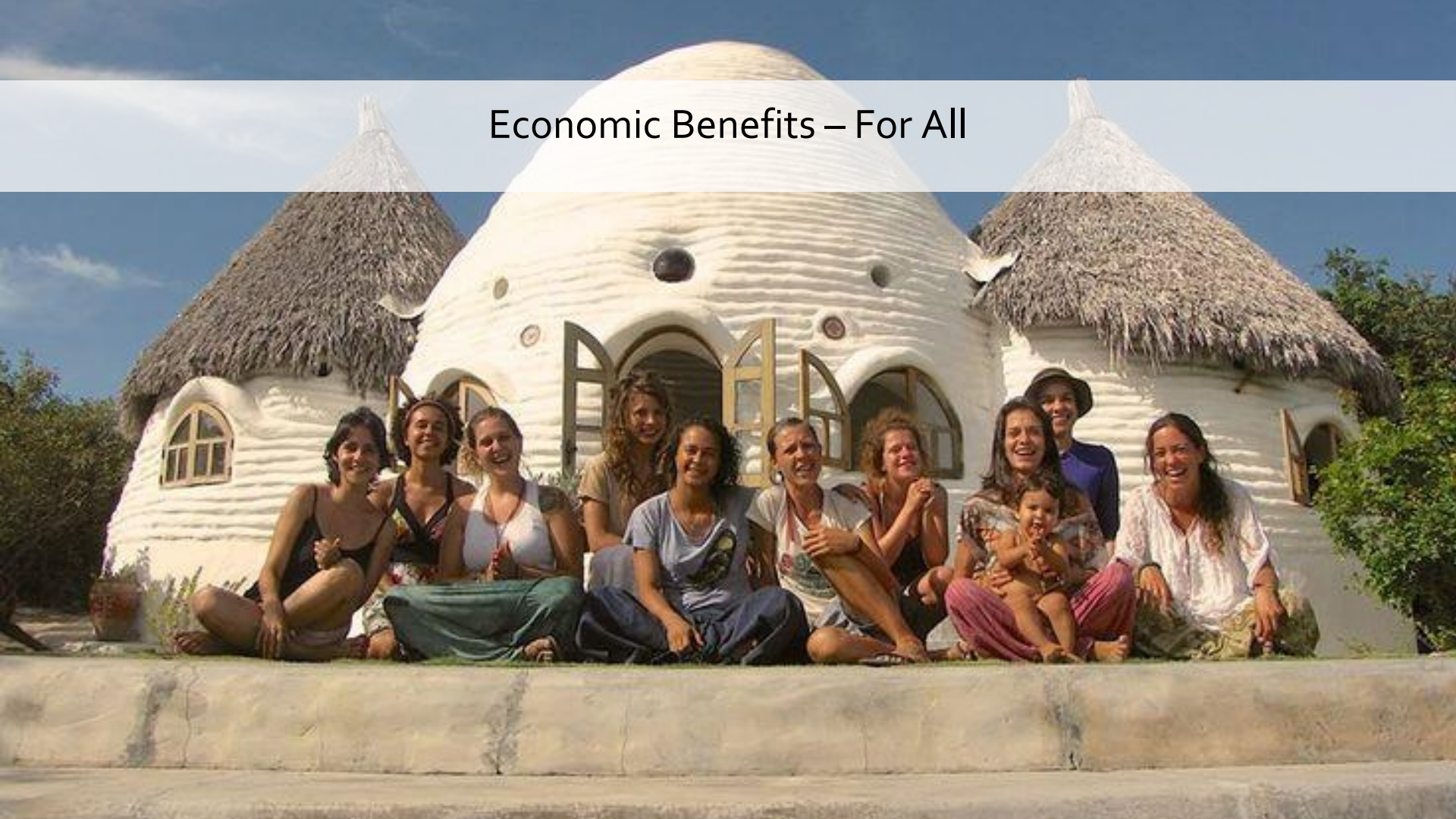
[redacted]
*(Printing in situ, 24h=1 house…)*

[redacted]
*(Reduced carbon footprint …)*

# What is interesting with Constructions-3D ?


CONSTRUCTIONS
3D
WWW.CONSTRUCTIONS-3D.COM

# Economic Benefits – For All

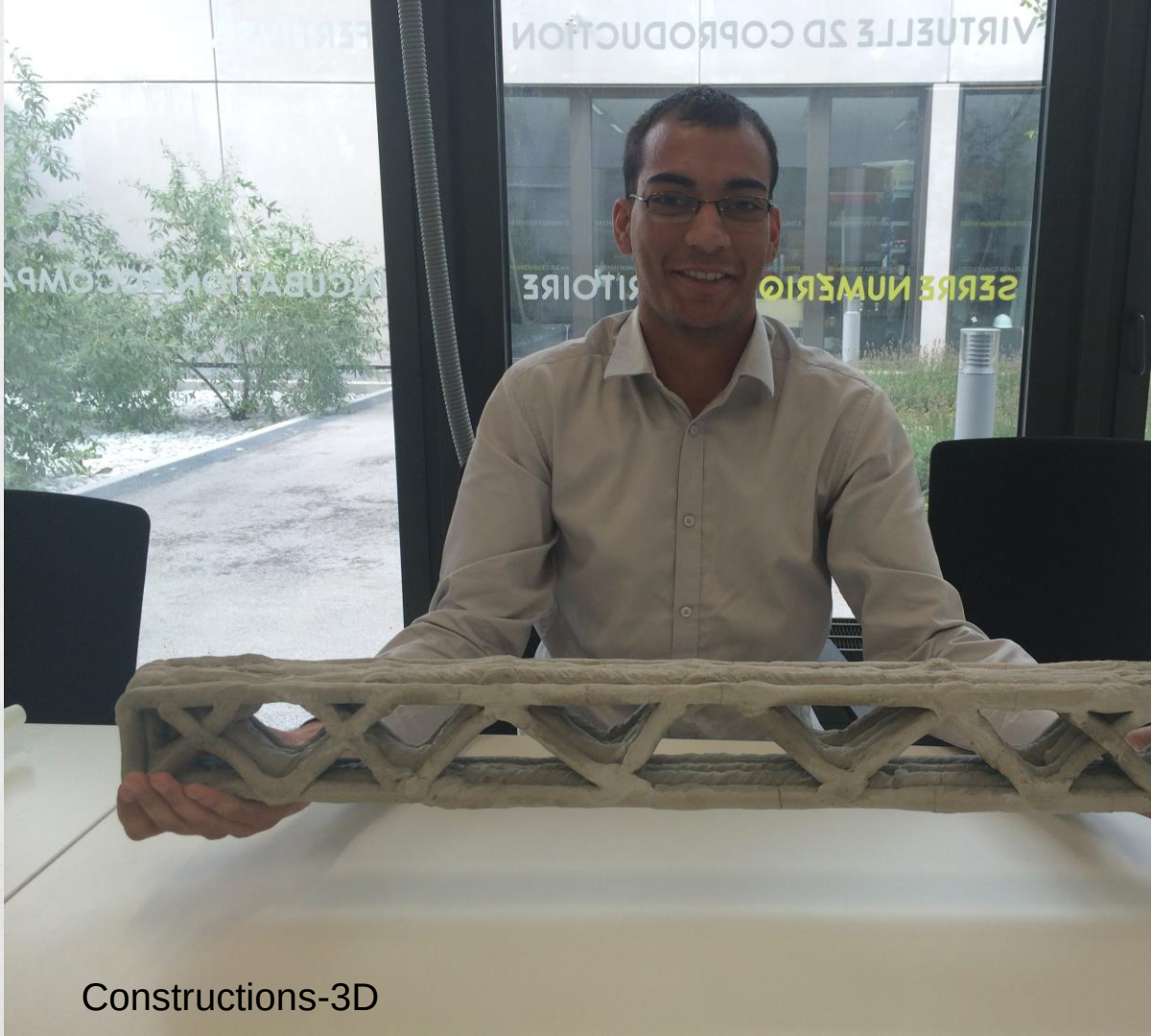


# Economic Benefits – For us and our Region

MACHINARIUM 2 – Official Presentation
27 and 28 Octobre 2017
VALENCIENNES

CONSTRUCTIONS 3D

*(50% reduced material...)*



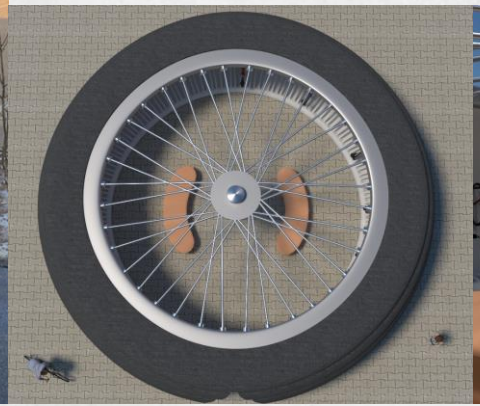
Constructions-3D

*(impression in situ, 24h=1 maison…)*

Constructions-3D

CONSTRUCTIONS 3D

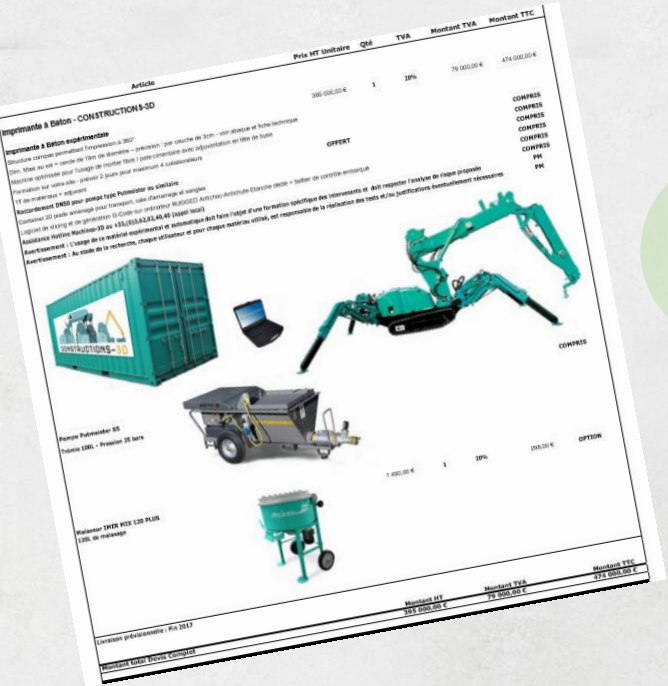
*(Overcome the constraints of the current tools in the construction industry…)*



Nader KHALILI – Sandbag Shelter - CALEARTH

**Reduced Ecological Impact**
*(Reduced carbon footprint…)*

CONSTRUCTIONS 3D



[redacted]

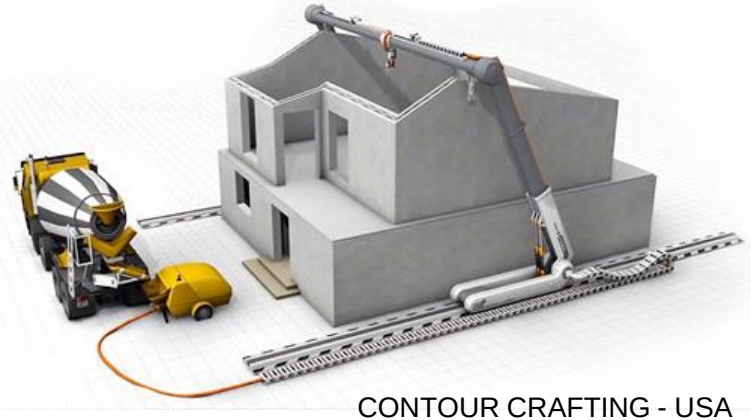
*(cost divided by 10...)*

Constructions-3D

WINSUN - China

# Parallel Projects...

WASP - Italy



CONTOUR CRAFTING - USA

CONSTRUCTIONS 3D

APIS COR - Russia

Open Forum