Startup Europe Partnership

Digital Construction and Infrastructures

June 2018

368 Digital Construction Scaleups in Europe
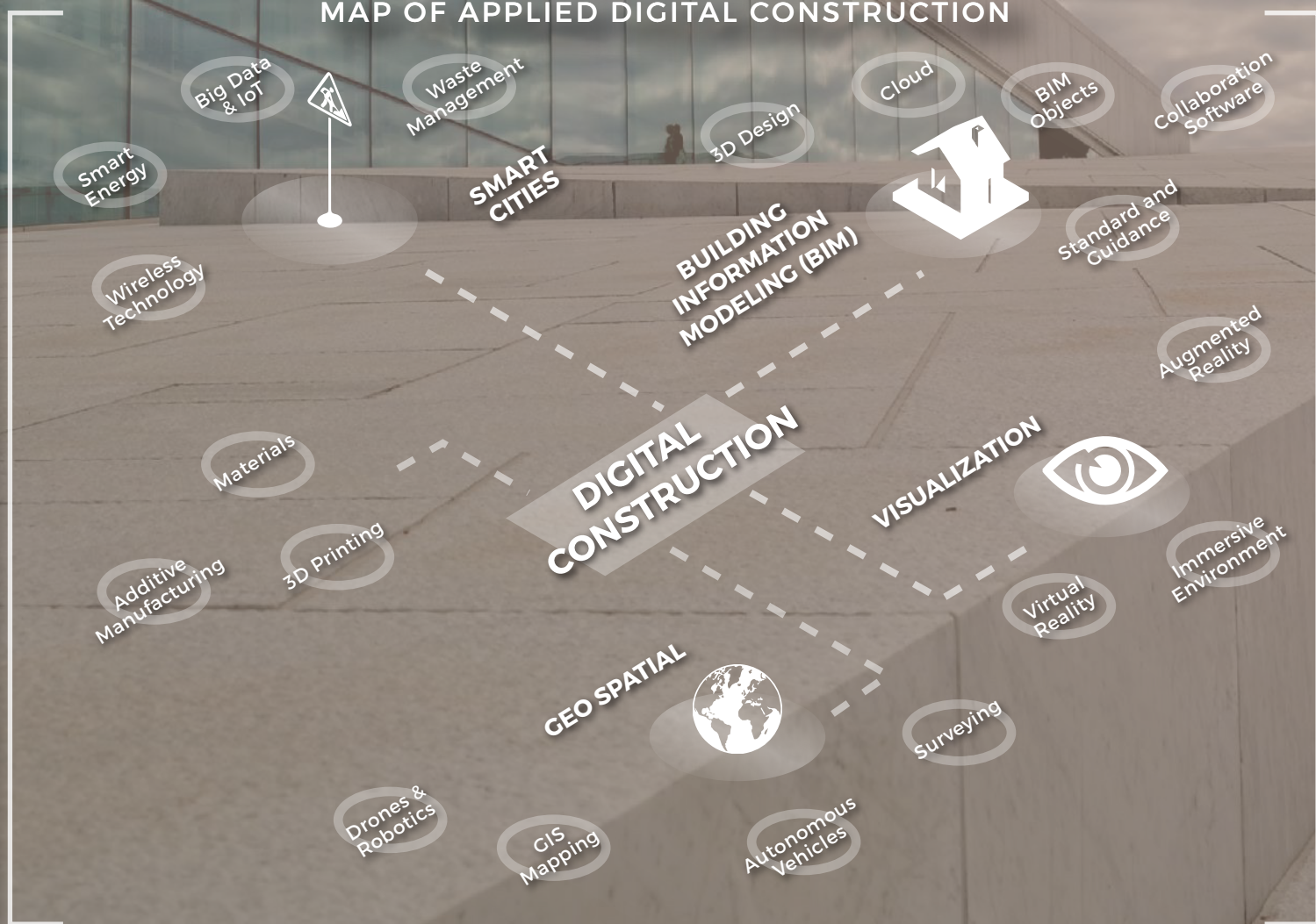
$3.9B Total Capital Raised

AMOUNT OF CAPITAL RAISED PER GEOGRAPHY*

-       +

Digital Construction refers to the leveraging of new technologies to improve the way construction and manufacturing cycles work.

From planning, to modeling, supply chain and distribution, 3D printing, Virtual Reality (VR) big data and IoT have the potential to redefine how companies design, build and produce goods.

The outcome is a smarter, leaner and more efficient processes and use of resources.

MAP OF APPLIED DIGITAL CONSTRUCTION

DIGITAL CONSTRUCTION

SMART CITIES
- Big Data & IoT
- Waste Management
- Smart Energy
- Wireless Technology

BUILDING INFORMATION MODELING (BIM)
- 3D Design
- Cloud
- BIM Objects
- Collaboration Software
- Standard and Guidance

VISUALIZATION
- Augmented Reality
- Immersive Environment
- Virtual Reality

GEO SPATIAL
- Surveying
- Drones & Robotics
- GIS Mapping
- Autonomous Vehicles

- Materials
- 3D Printing
- Additive Manufacturing

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SEP RESEARCH HIGHLIGHTS
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DIGITAL CONSTRUCTION AND INFRASTRUCTURE: KEY TRENDS

NEW MATERIALS

Sustainability: More of a requirement than a choice, sustainability will drive the development of new materials and decrease the waste produced by the industry.

3D printing: New and more resistant materials will improve and diversify the use of 3D printing in construction, lowering costs.

MIXED REALITIES

Virtual Reality: The use of VR during planning and modeling processes will decrease both costs and the overall time to realise the project. Furthermore, VR will enhance industry collaboration with more data exchange and benchmarking.

Augmented Reality: AR will allow builders to use AR lens' on the construction site in real time to plan and visualize the finished product.

INTERNET OF THINGS

Sensors: Companies will begin to use more sensors to monitor and measure all resources and phases in the supply chain.

Drones & Robotics: Precision mapping and imagery are improving through drone use and the development of robotics allows construction sites to become less dependent on human labor.

Data: IoT will increase the amount of data available and provide real-time feedback to organizations. The largest potential benefit is a more efficient uses of resources.

SEP SCALEUPS ON WATCH

3D REPO
Founded: 2014
Country: United Kingdom

Description
3D Repo is a multi-award winning spin-off from Virtual Environments, Imaging and Visualisation at University College London backed by Sussex Place Ventures.

BIMCHAIN IO
Founded: 2017
Country: France

Description
BIMchain is an innovative platform for BIM information legal engagement and protection between professionals, empowered by Blockchain

BIM [welt]
Founded: 2015
Country: Germany

Description
Solution oriented to the construction industry, its main product is for component management system. Target users are project developers.

CAD.42 SAFER & SMARTER
Founded: 2016
Country: France

Description
CAD.42 is a French based company providing real time location system in order to track equipments and people on construction sites connected to the BIM.

Cloudalize
Founded: 2011
Country: Belgium

Cloudalize NV, developer of the GPU Desktop as a Service Platform available for partners. The platform deploys GPU- accelerated cloud desktops for GPU-intensive applications such as CAE, CAD, CFD, GIS, 3D, etc..
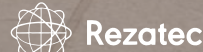
PlanRadar
Founded: 2013
Country Austria

Description
PlanRadar offer a SaaS solution for construction documentation, task and defect management. Their solution with web access and native apps for all kind of mobile devices supports the user in recording, documentation, communication and tracking of tasks and defects.

q-bot
Founded: 2012
Country: United Kingdom

Description
Q-Bot system uses compact remote-controlled robotic vehicles to crawl around floor voids applying polyurethane foam insulation to the underside of timber or suspended concrete ground floors of new and existing domestic and non-domestic buildings.

Rezatec
Founded: 2012
Country: United Kingdom

Description
Rezatec provides industry-leading intelligence products for monitoring and predicting environmental hazards to drive mitigating actions and improve operational efficiency and whole-life impact whilst substantially reducing the cost of monitoring land-use change and environmental risk to assets.

SABLONO
Founded: 2013
Country: Germany

Description
Sablono develops and distributes software solutions for the digital planning and controlling of construction projects. Founded in 2013, the spin-off from Technische Universitaet Berlin is currently supported by its investors.
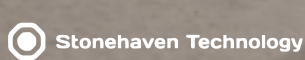
SenSat
Founded: 2015
Country: United Kingdom

Description
SenSat has two sides to the business: using autonomous mapping drones to digitally replicate (they are part of the Pathfinders initiative which means they have special clearance to for their drone flights over UK roads).

ShareMat
Founded: 2017
Country France

Description
Sharemat provides a new way to work with construction equipment: fleet & rental collaborative solutions with telematics. ShareMat FLEET manages the fleet and collaborate with teams and service providers to optimize equipment & service.

Stonehaven Technology
Founded: 2010
Country: United Kingdom

Description
Stonehaven Technology develop and supply highly innovative enterprise software applications. They transform a company's approach to operations, delivering wide, cross organisational functionality and achieving significant business value.

zeetta NETWORKS
Founded: 2015
Country: United Kingdom

Description
Zeetta Networks is a spin-out company from the High performance Networks group of the University of Bristol operating within the Software Defined Networking market which is estimated to reach over USD 105 billion by 2020.

illustreets
Founded: 2013
Country: United Kingdom

Description
Illustreets Publisher offers a cost effective, easy to use, self-service SaaS solution, helping businesses publish location data and insights as personalised, full-featured web mapping apps.