



Project Visualization Platform
Smart Construction Tool

#Dinsdag 2 Juli 2019

C-SITE the making of - Testimonial



Stakeholdermix is complex

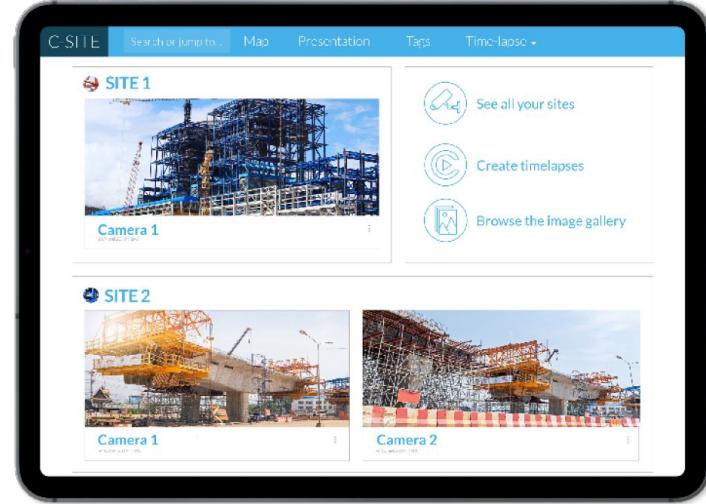


Stakeholdermix is complex

All stakeholders have their own
objective and expertise.

How can we use one standardized
form of data to objective inform?

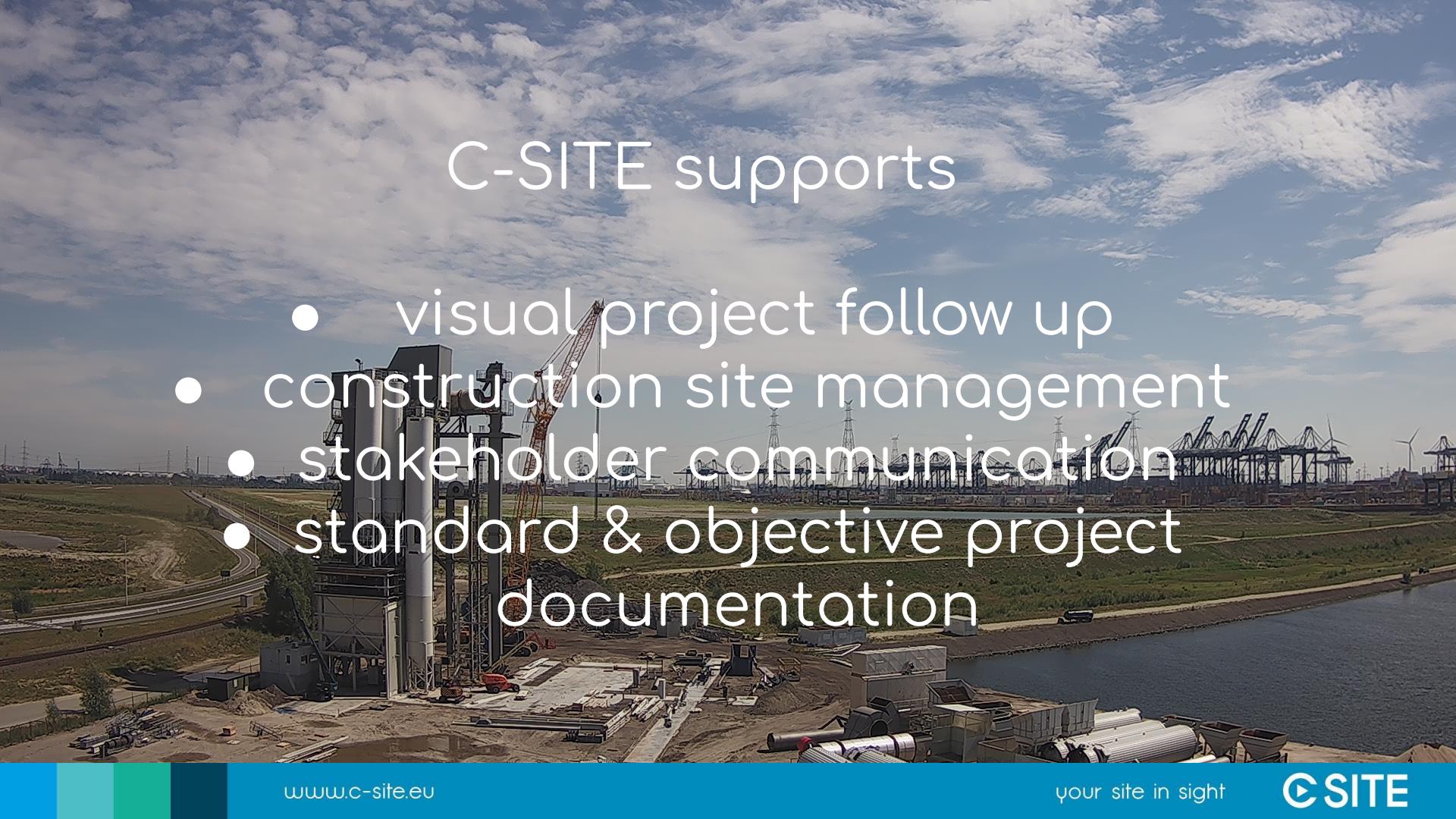




C-SITE is een open en automatische end- to- end service voor bouw en engineering projecten

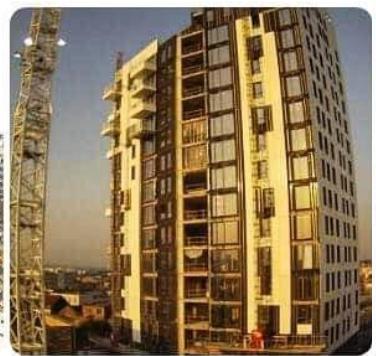
en laat toe de projecten te visualiseren via een camera systeem on site en webapp

ter ondersteuning van operationele processen en communicatie

The background image shows an aerial view of a large construction or industrial site. In the foreground, there's a concrete structure with a tall cylindrical tower and some smaller buildings. A large orange lattice-boom crane is positioned next to it. The site is surrounded by dirt roads and some greenery. In the middle ground, there's a river flowing through the area. In the background, there are more industrial buildings, several wind turbines, and a line of power pylons under a blue sky with scattered white clouds.

C-SITE supports

- visual project follow up
- construction site management
- stakeholder communication
- standard & objective project documentation



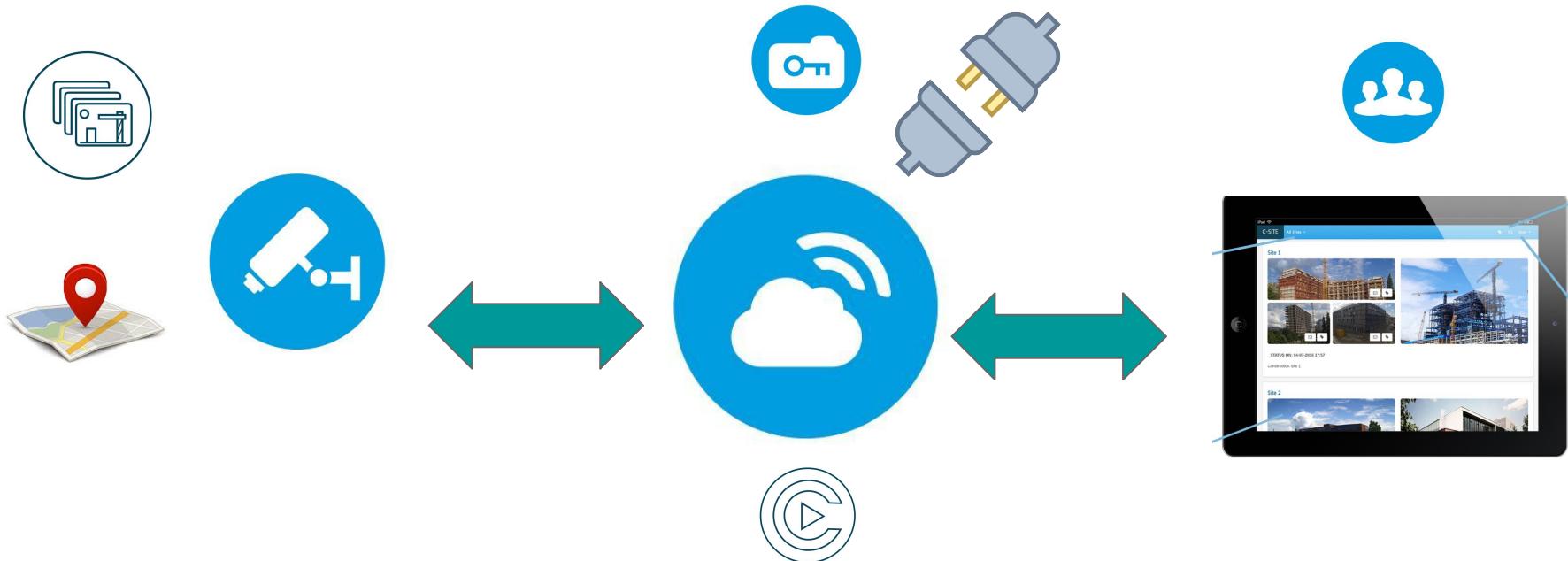
engineering projects
public infrastructure
wind farms
utilities
offices & logistics
city development
chemical plants



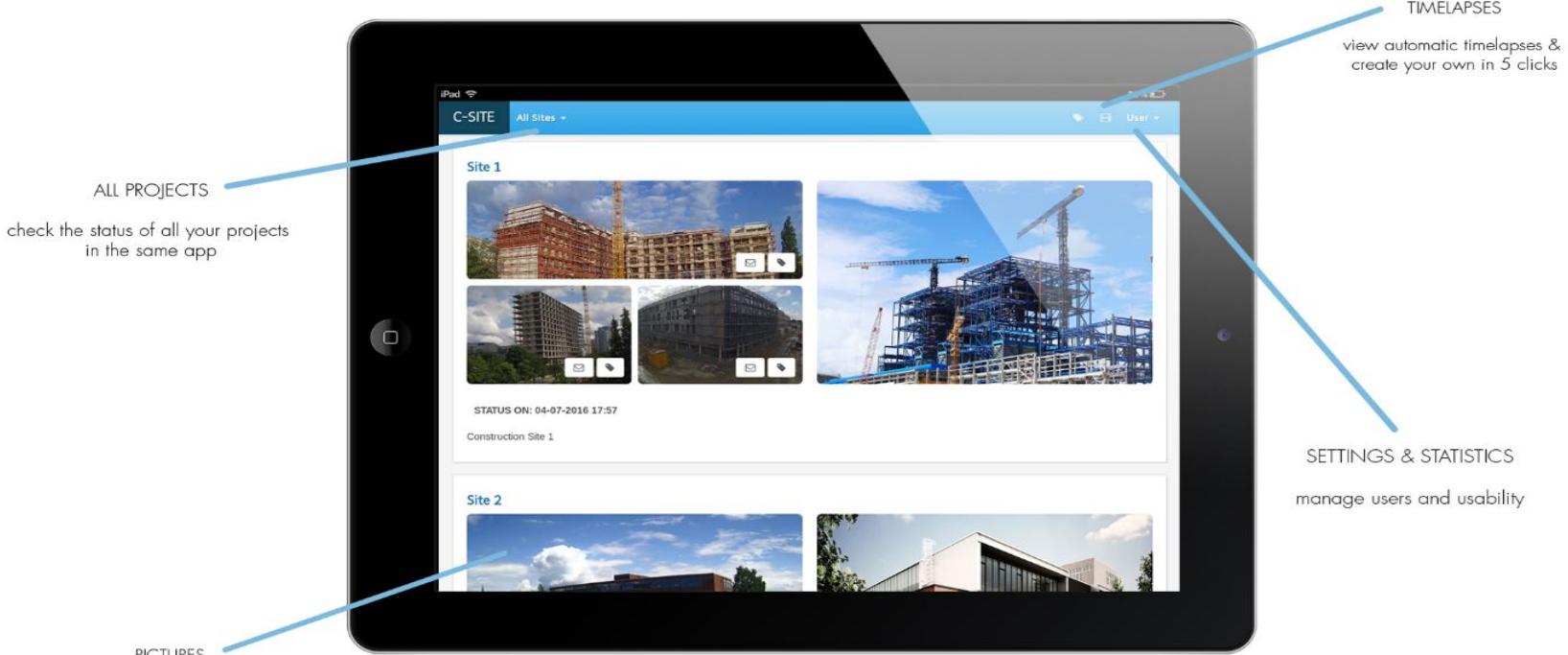


HOW do we realize this?

Big Data Platform managed hardware - software - connectivity



C-SITE app opens up the info



PICTURES
your own picture gallery with
storage & search function

www.c-site.eu

your site in sight

CSITE

C-SITE use cases





“a flood would have incurred major costs (thousands of €s) if they hadn’t seen it on camera”



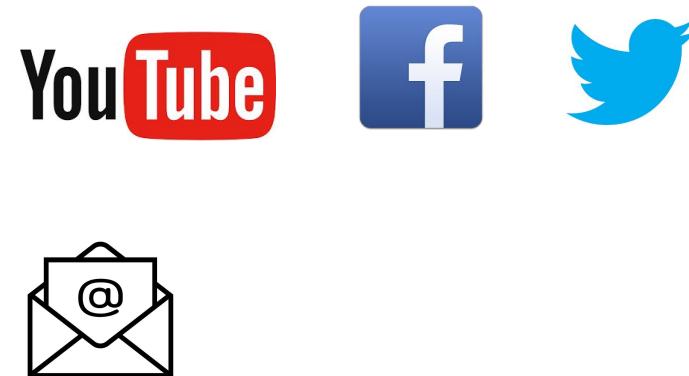
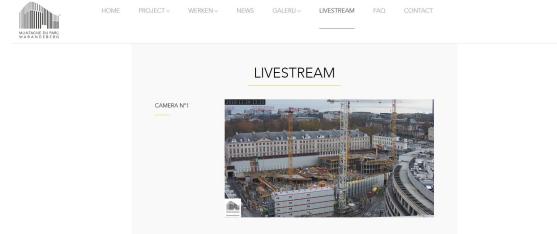
Quick & easy social share automatic or on demand



Company website

Social media

E-mail





Add other users

Select login delay & access for other parties

Customize

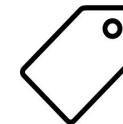
- Frequency of image taking
- At each stage of the project
- Branded

I'M IN CONTROL



Share

- Email & social media
- Upload to intranet
- Download to your device



Tag

- Organize into categories

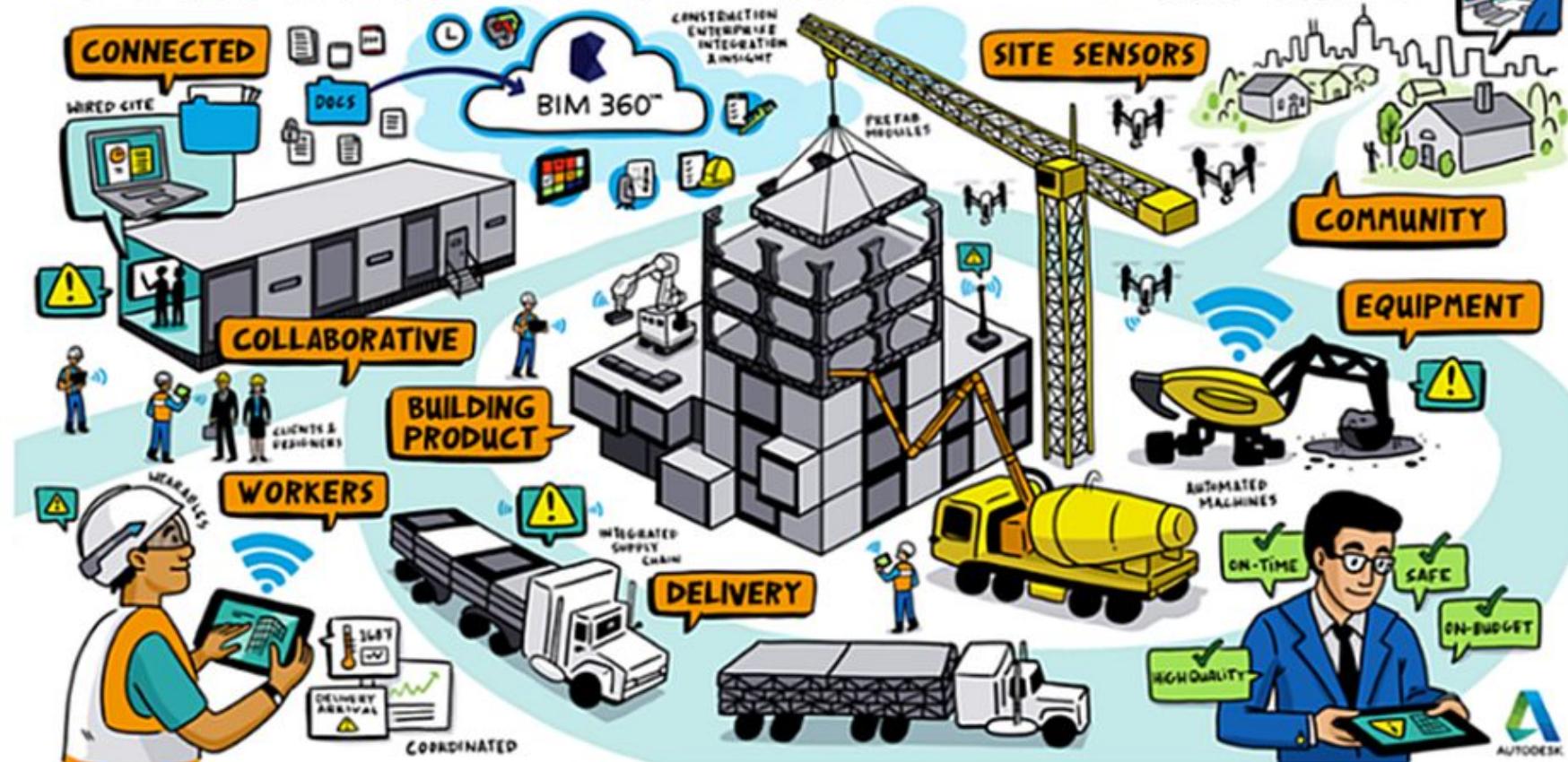


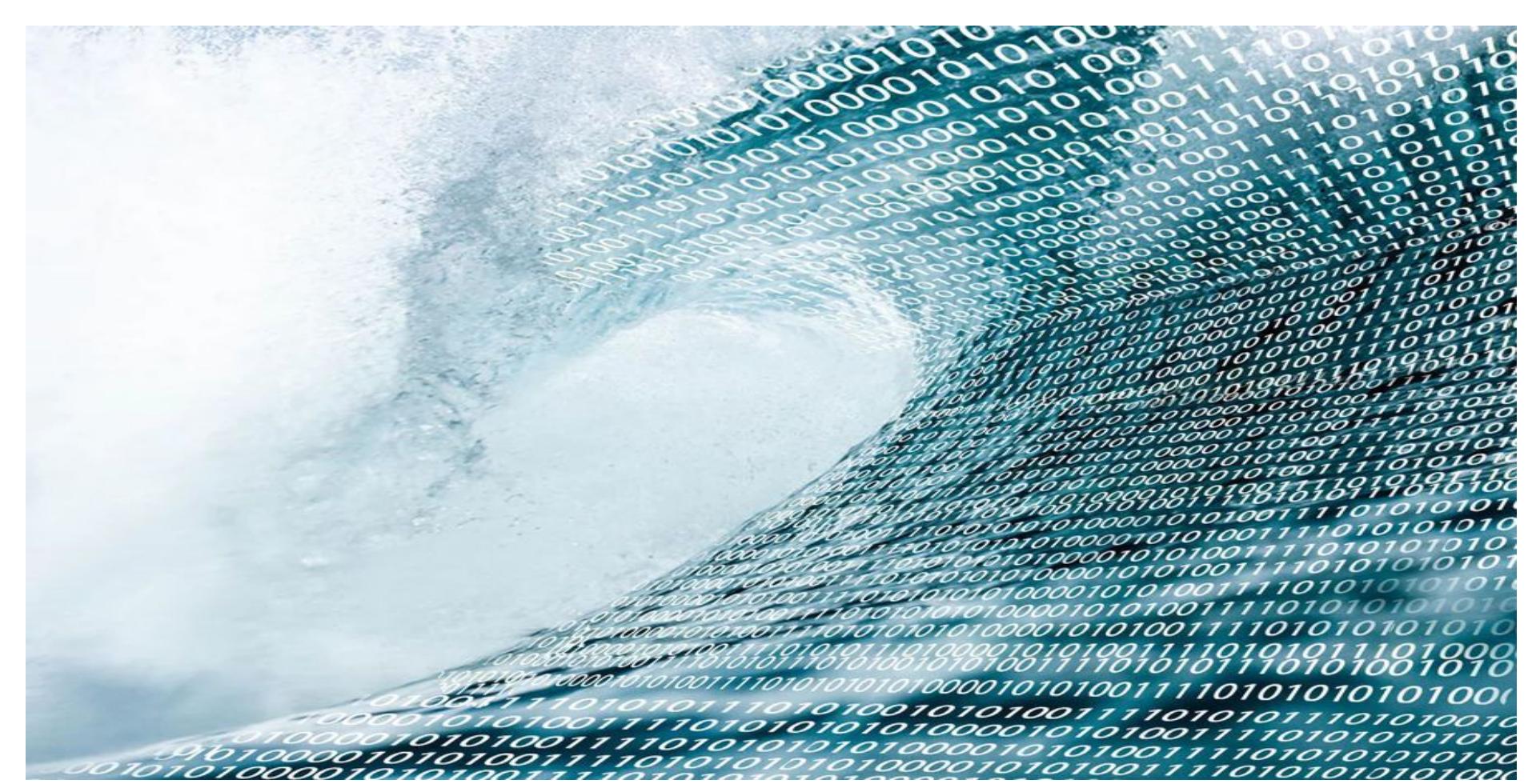
Search in cloud

- Database of images
- Across project timeline
- Tagged items

What does it mean IoT on
construction site?
Now and in the near future.

CONSTRUCTION SITE OF THE FUTURE







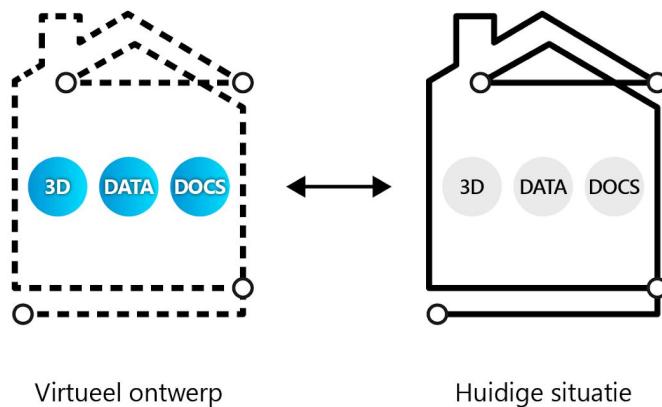
DIGITAL TWIN

A photograph of a person's hand reaching out towards a glowing, wireframe digital twin of another hand. The background is a gradient blue, suggesting a futuristic or digital environment.

Digital twin: De brug tussen de fysieke en virtuele wereld

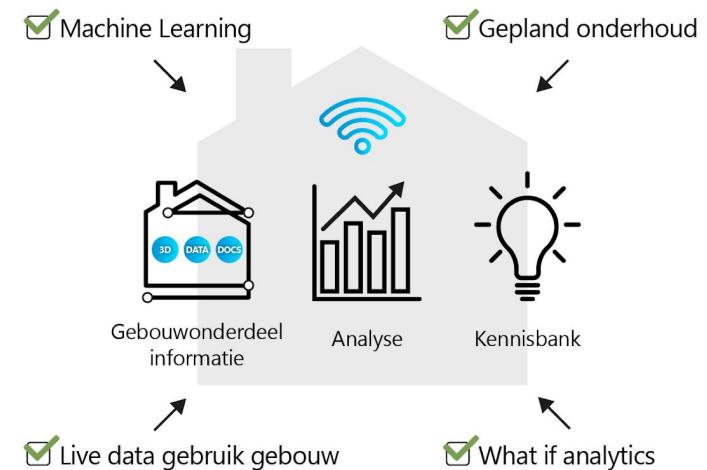
BIM

Virtuele omgeving



DIGITAL TWIN

Virtuele omgeving + werkelijke omgeving



VOORLOPIG ONTWERP

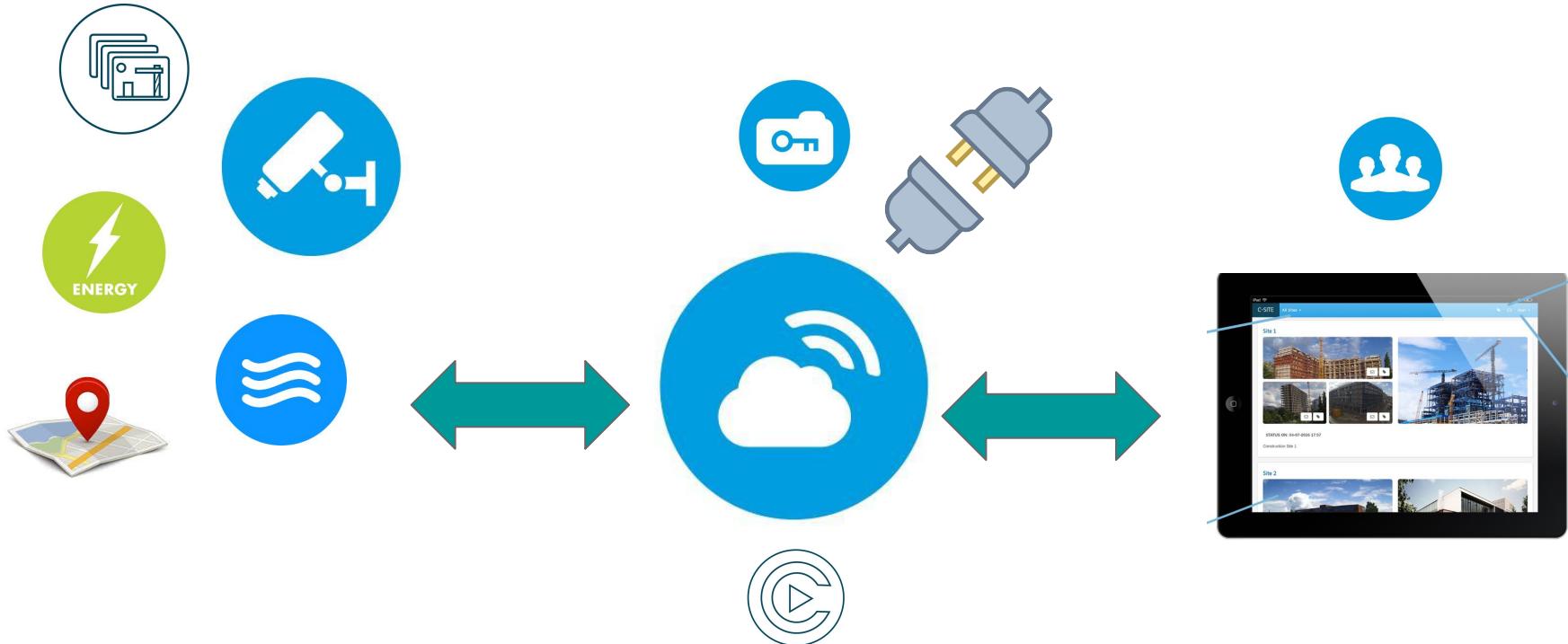
DEFINITIEF ONTWERP

UITVOERING

BEHEER EN ONDERHOUD

HERBESTEMMING

Adding other construction site data



Integration



Other possible Integration



SharePoint



What technologies do we need to move forward and what are the challenges to get there?



Technology

- Image recognition
- AI -machine learning
- connectivity - specifiek 5G availability

Image Recognition

Select all images with statues.

Below the grid are three small icons: a refresh arrow, a speaker, and an info circle. To the right is a blue "VERIFY" button.

Select all squares with
traffic lights
If there are none, click skip

Below the grid are three small icons: a refresh arrow, a speaker, and a person with a checkmark. To the right is a blue "SKIP" button.

AI toepassing Siri







- toegankelijkheid van de context gerelateerde info voor de mensen op de werf
- betrouwbaarheid en controleerbaarheid van die data
- regelgeving vb privacy en IP (auteursrecht)
- verantwoordelijkheidsbepalingen
- bepalen van de grote wins voor de bouw die veel druk voelt op niveau van productiviteits graad

some of our C-SITE users



Rijkswaterstaat
Ministerie van Infrastructuur en Waterstaat



INTERBUILD



Keep Discovering





DANK U
VOOR HET
LUISTEREN

KeepCalmAndPosters.com



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