













Executive Presentation 08. July 2021









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General Information









About the Project

Cooperation Project:













16 weeks

19. March 2021

9. July 2021



Customercentric project management

Using <u>agile methods</u> like AWS Working Backwords & SCRUM



Goal

Development of a prototype for data-driven facility management

Development of InSite









PROBLEM - Problem Statement





Today has to

the Facility Manager of the Museum of London contact a third party service provider find out about the building's health, identify issues & locate them, what consumes a tremendous amount of time!









SOLUTION - Big Idea



We will **develop a tool** that will make it possible to **process the data** collected from the building and **transform** them **into** valuable **information** in such a way that it can be easily interpreted.



Make available data centralized, transparent and clearly compatible for an intuitive and better understanding by visualising the building's data.









Storyboard















Storyboard















Prototype



Things to consider

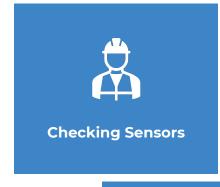








Laying the foundation











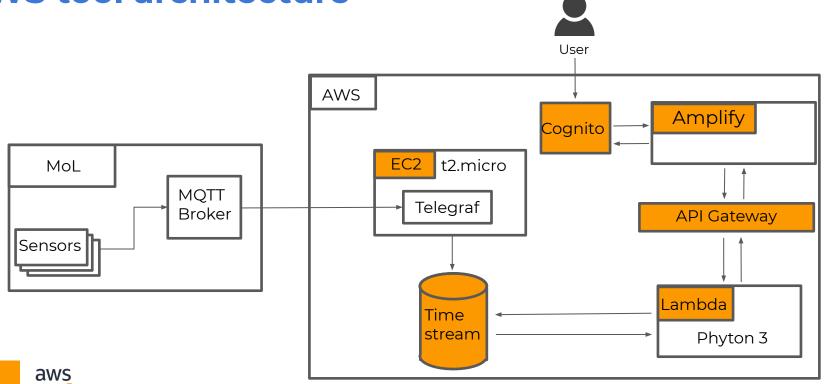








AWS tool architecture











Running Costs using AWS tools

Estimated costs for current prototype

 $\sim 19 \text{ £/mo}.$

current version with 6 data points visualized

Estimated costs at current expansion level

~ 83 £/mo.

current prototype with 600 data points visualized

Usage-based pricing

not predictable

costs can change in case of tools, # of data, upgrading,

•••









Business Case

Main Energy Savings

Use of model-based fault detection, fault diagnosis & optimization procedures **open up energy saving potentials of**

up to **30 %**

regarding a project study of the Fraunhofer Institute.



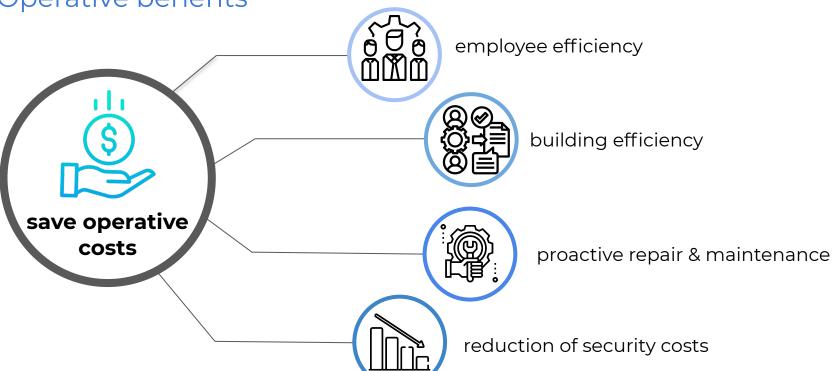






Business Case

Operative benefits











Frequently Asked Questions (FAQs)



Future Outlook









A possible InSite Future



Implementation of **all data points** to InSite to
transform the MVP into a
valuable solution.



Improvement of InSite's **mobile version** for on-the-go information.



Showing historical data diagrams of every visualized sensor for further information.



Adding & refining maintenance calendar with a menu point for detailed information.



Development of an alternative **view by AHUs** beside the room view.



Implementing energy consumptionvisualization as a central
element.



Individualization of the solution for every user. Selecting times, rooms, AHU, ... responsibilities.



Development & programming of a predictive maintenance approach to increase efficiency.

Implementing other project group solutions AND A LOT MORE!!!









Publications



Access

www.co-inno-lab.org/en

Artefacts

Co-Innovation Lab Press Release

Access

sites.hm.edu/dt_lab/index.en.html

DT Lab

Artefacts

Digital Transformation Lab Report

Solution Press Release

Prototype Code

FAQs

Storyboard

The Team









Meet the team





























THANK YOU!

Any Questions?
Please contact us!
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