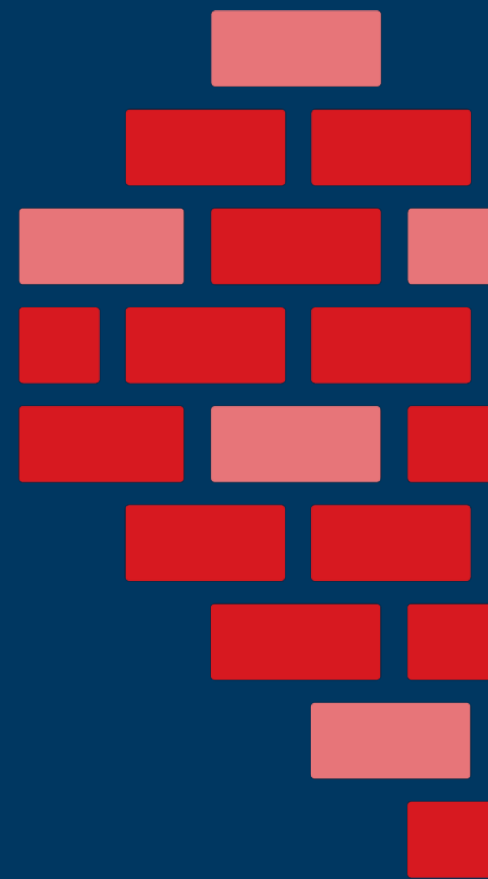
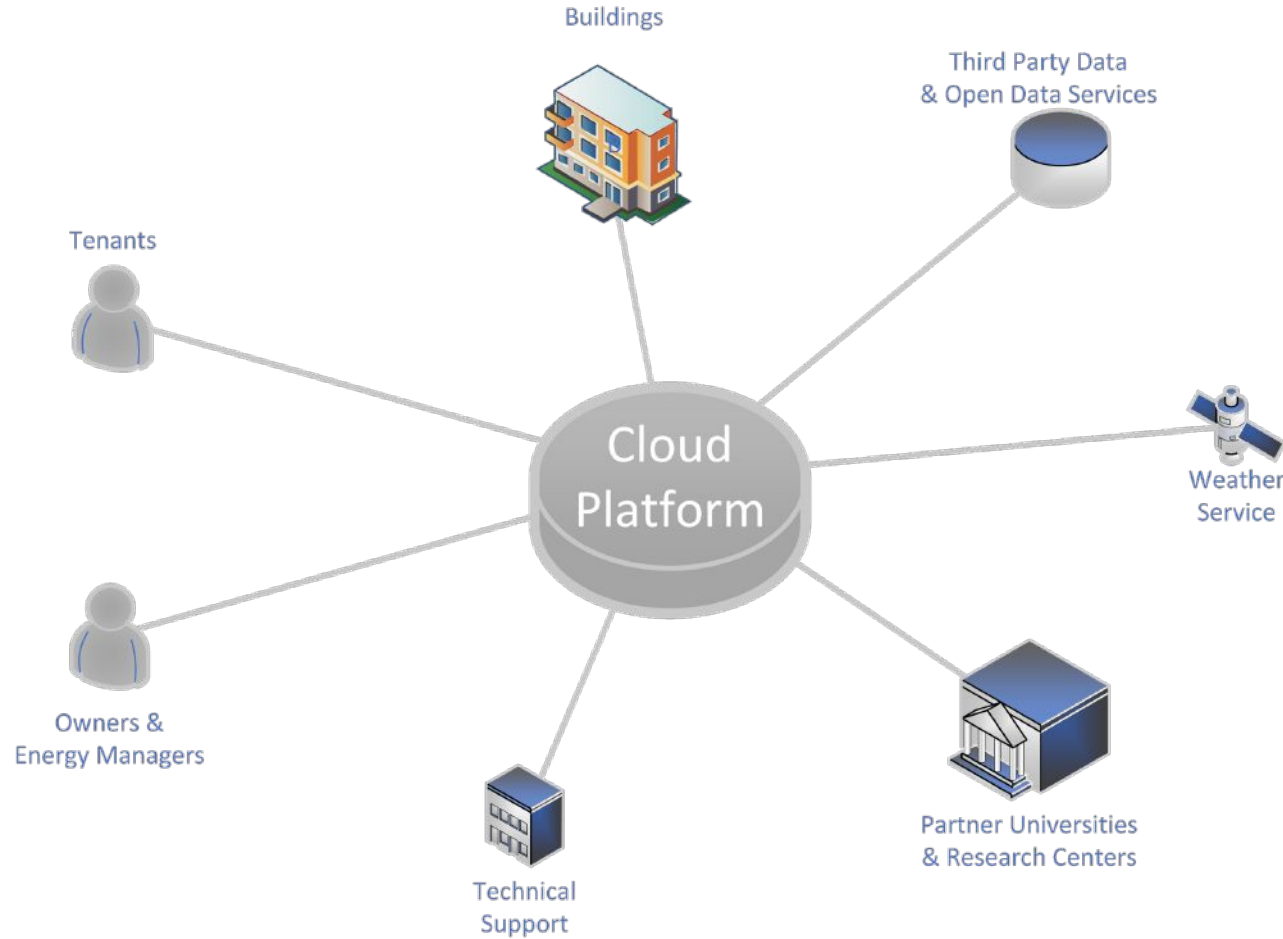


OPENING DOORS TO EFFICIENT BUILDINGS

HEART Cloud Platform



HEART Cloud Platform



- Owner & Energy Managers
- Buildings System
- External Services
- Universities & Research Centres
- Platform Technical Support
- Tenants

HEART Cloud Platform



- Registration on the HEART Cloud Platform
- Description of the Building
 - Localisation
 - Envelop, HVAC, Thermal zones, Ventilation System, ...
 - Various Energy Consumption
 - Economical Parameters
- Description of the targets
 - Retrofit Technologies
 - Savings in Energy Consumption

Propose a Set of Options for the Retrofit

- Environmental Impact
- Economical Impact

HEART Cloud Platform



Building Retrofit

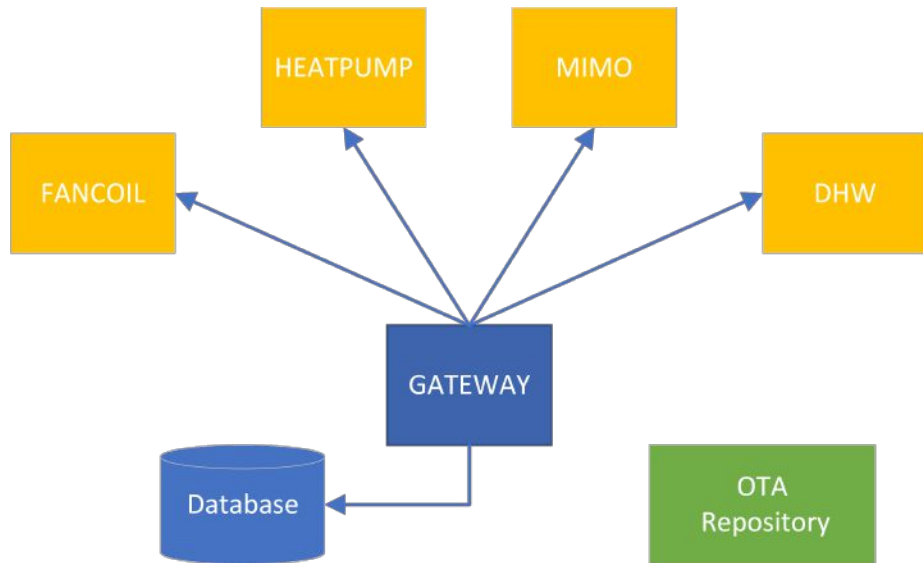


Toolkit is Operational

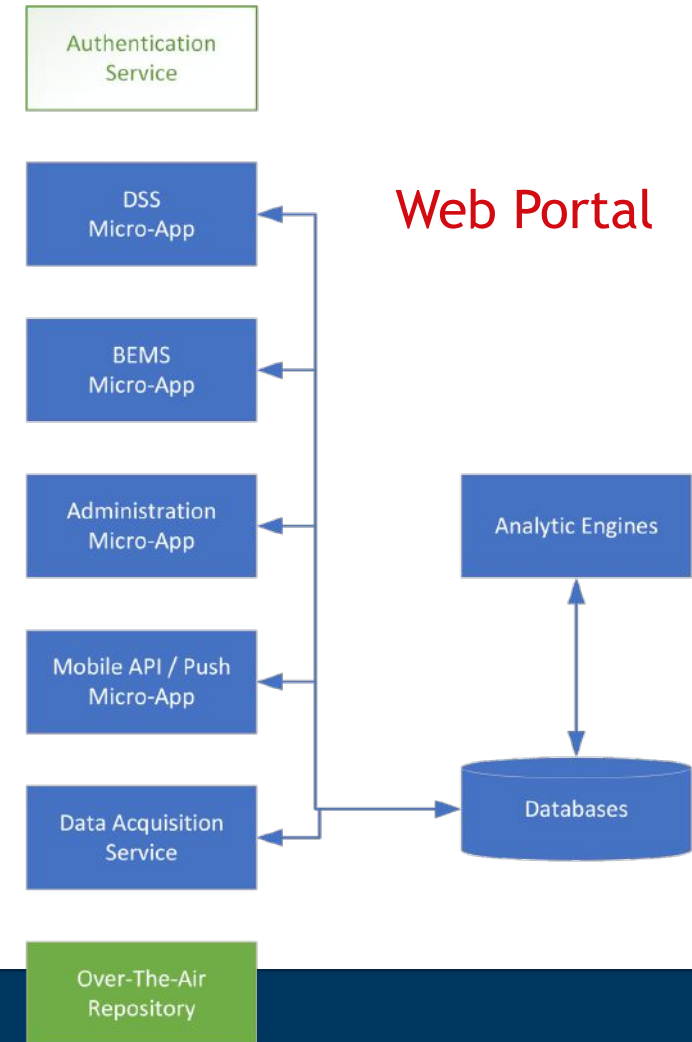
- Energy Dashboards
- Dwelling application
- Academic review

Cloud Platform - Overview

Building System

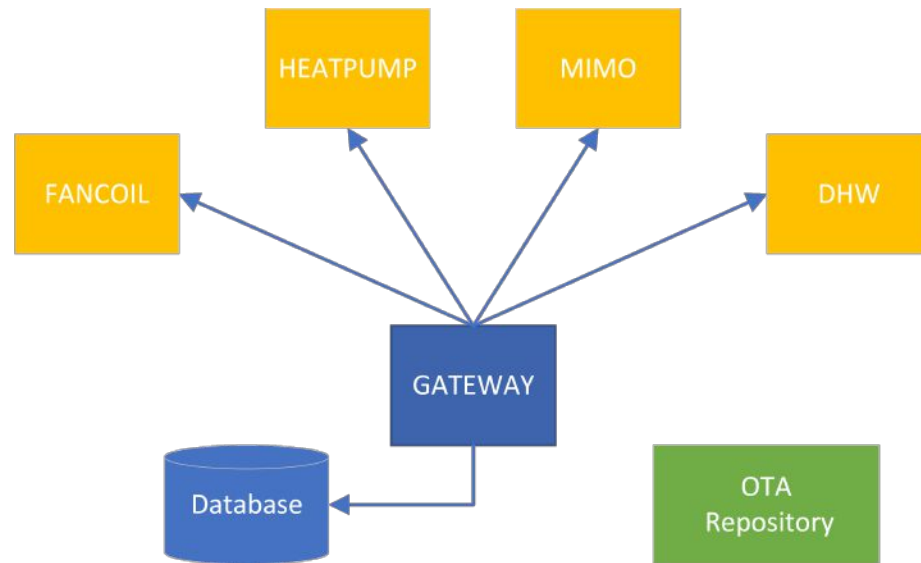


Web Portal



Cloud Platform - Overview

Building System

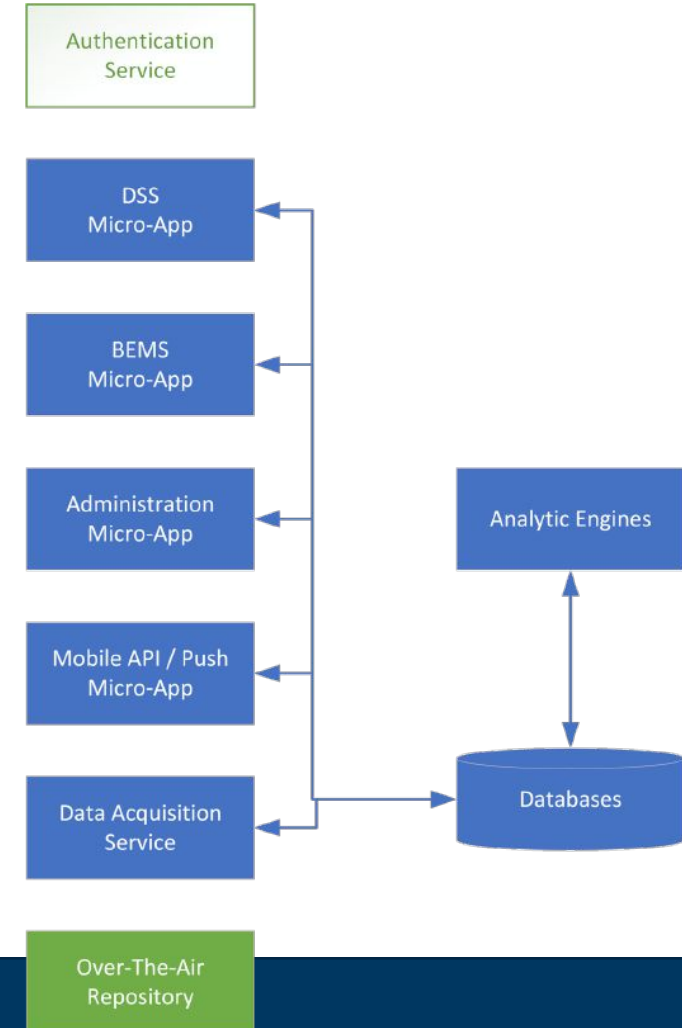


- Collect the data from the different devices
- Transmit the data securely to the web portal
- Forward control command to the devices
- Local control on devices
- Maintain the system up to date
- Store data locally for maintenance support

Cloud Platform - Overview


Web Portal




- Manage user access, privacy and authorisation
- Support the owner in the decision for retrofit
- Collect the data from the different buildings
- Inform owner & facility manager using Dashboards
- Execute calculation & analytics to control building behaviour
- Provide global administration of the system
- Support the updates to the hardware in the building
- Contribute to validation of the analytic models by academic partners
- Store telemetry and control data for further analysis and comparison



Cloud Platform

Administration Portal

 HEART



TEST BUILDING

FAN COILS




Floor	Dwelling	Room	Address	Serial	Correlation	Description	Status
FLOOR_01	APARTMENT_65_02	ROOM_65_02_02	http://192.168.1.222:80	22	FB54E862-C99B-6936-4957-61A9F99958C7		ON

HEAT PUMPS

Name	Address	Serial	Correlation	Description	Status
HEAT_PUMP_01	http://192.168.1.106:9090	HP01	1BBB59B9-309A-418D-9B5C-EB3E88FD78E2	Info	OFF
HEAT_PUMP_02	http://192.168.1.107:9090	HP02	18462EFF-1FAF-4D5F-AF60-61877A4EF049	Info	OFF


MIMO




Name	Address	Serial	Correlation	Description	Status
PROJECT					
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			CONTACTS		
			Support		
			support@heartproject.io		

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Cloud Platform

Administration Portal

 HEART



TEST BUILDING

LIST OF DWELLINGS

Granted	Floor	Dwelling	Tenants
<input type="checkbox"/>	FLOOR_01	APARTMENT_65_02	First Tenant(tenant5@test.com) Other Tenant(tenant1@test.com) New Tenant Children(tenant10@test.com)

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Cloud Platform

Tenant Application

 HEART



RESIDENCE "LES MIMOSAS"

APPARTMENT "MY APPARTMENT" (B 1-05)

Profile

MAIN CONTACT ⓘ

Jonathan ROUGEJonathan.rouge@gmail.com ⓘ+33 0641237353 ⓘ

LIST OF OCCUPANTS ⓘ

Jonathan ROUGEJonathan.rouge@gmail.com ⓘ+33 0641237353 ⓘkOPI0087 ⓘ

Jonathan ROUGEJonathan.rouge@gmail.com ⓘ+33 0641237353




CancelOk


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 HEART



CONSENT PAGE

Lorem ipsum dolor sit amet consectetur adipisicing elit. Doloribus qui consequatur suscipit velit id reiciendis voluptates quidem excepturi soluta, magni at expedita numquam quaerat quas architecto iusto perspiciatis temporibus illo. A, obcaecati minima sapiente laborum, fugiat suscipit aliquam ipsum cum non animi cupiditate quos sequi ducimus! Repellat, quibusdam perspiciatis. Eum quam hic neque architecto sunt odio animi quis quod nisi. Minus dicta odio fugiat in sequi at cumque necessitatibus ab quaerat animi fugit reprehenderit perferendis itaque blanditiis eaque laborum impedit quae temporibus, eos tenetur, quasi voluptatem praesentium consequuntur atque. Minus! Qui atque necessitatibus reprehenderit doloribus, optio nemo quasi sit! Distinctio ad

Alreay Consented on January 11th 2022, 15:15

☐ Lorem ipsum dolor sit.




I consent


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Cloud Platform

Tenant Application

 HEART

RESIDENCE "LES MIMOSAS"

APARTMENT "MY APARTMENT" (B 1-05)

Rooms

Name	Set Point	Tempperature
Living Room 1	25.C	24.C
Living Room 1	25.C	24.C
Living Room 1	25.C	24.C
Living Room 1	25.C	24.C

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RESIDENCE "LES MIMOSAS"

APARTMENT "MY APARTMENT" (B 1-05)

Living room

Set Temperature

<< 20.C >>

Saved this year

150€

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Cloud Platform

Analytic Application

 HEART



usefultestdb2

telemetry.smart_heatpump

Serial Numbers

☐ Select All

☒ 18462EFF-1F4F-4D5F-AF60-61877A4EF049

☒ 1BBB59B9-309A-418D-9B5C-EB5E88FD78E2

Observables

☒ Select All

☒ Buffer_charging_pump

☒ Buffer_storage_temp

☒ Buffer_temperature_Active

☒ Buffer_temperature_value

☒ COP

☒ Clear_error_reset

☒ Compressor

☒ DHW_Minimum_temp

☒ DHW_Normal_temp

☒ DHW_temp_Active

☒ DHW_temp_value

☒ DHW_temperature

☒ ES_inlet_temp

☒ ES_outlet_temp

☒ Error

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

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Cloud Platform

Analytic Application

 HEART

☐ Merge Data

Last n Observations:

OR Start : -

Cleaning

☐ None

☐ Remove Hard Limits

☒ Remove Percentiles (%)

☐ zScore Cleaning

Regularization

Fetch Series

Reset Page

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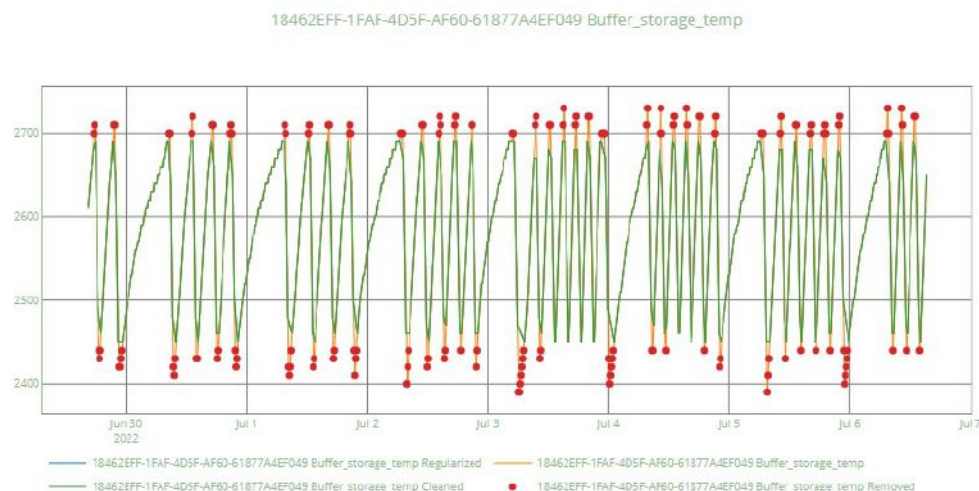
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Cloud Platform



Analytic Application



18462EFF-1FAF-4D5F-AF60-61877A4EF049 Buffer_storage_temp Regularized

Length:	59942	
	Time	Value at
Frst Obs:	2022-06-29T16:25:00+02:00	2610.00
Last Obs:	2022-07-06T15:05:00+02:00	2610.00
Avg Date:	2022-07-03T03:40:05.009842688+02:00	
MinTimeInterval:	10s	
MaxTimeInterval:	10m0s	
MedTimeInterval:	10s	
AvgTimeInterval:	10.009843012s	
	Value	at Time
Min Val:	2450.00	2022-07-06T14:05:00+02:00
Max Val:	2690.00	2022-07-06T12:45:00+02:00
Avg Val:	2583.58	
St.Dev.:	72.91	

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Cloud Platform

Decision Support System

HEART



BUILDING LES MIMOSAS

Designer

Project Overview

Building Management

Technologies

Facility Management

Facility Overview

Energy Consumption











Investor

Investment Overview

Economic Parameters

Project Overview

DESCRIPTION OF THE BUILDING.

Number of floors (conditioned areas) (A15)	<input type="text"/>	Floors	
Net height of each floor (conditioned areas) (A16)	<input type="text"/>	cm	
Gross height of each floor (conditioned areas) (A17)	<input type="text"/>	cm	
Net floor area of the conditioned space (A33)	<input type="text"/>	cm	
Ground gross floor area of the conditioned space (A34)	<input type="text"/>	m2	
Total surface roof (A19)	<input type="text"/>	m2	
Total surface ground or unheated area (A20)	<input type="text"/>	m2	
Total Surface - North	<input type="text"/>	m2	
Total Surface - South	<input type="text"/>	m2	
Total Surface - East	<input type="text"/>	m2	

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Cloud Platform



RENOVATION PROPOSALS



Decision Support System

Expected Global Cost (A98).

Expected Payback time (A100)

Expected Internal rate of return (A101)

Expected Yearly total energy demand (A99)

Yearly renewable Energy Ratio (A108)

Yearly CO2 Emission (A111)

15 €/m2

30 years

%

0 kWh/m2

0 %

kg/m2

Select

Expected Global Cost (A98).

Expected Payback time (A100)

Expected Internal rate of return (A101)

Expected Yearly total energy demand (A99)

Yearly renewable Energy Ratio (A108)

Yearly CO2 Emission (A111)

26 €/m2

32 years

%

0 kWh/m2

0 %

kg/m2

Expected Global Cost (A98).

Expected Payback time (A100)

Expected Internal rate of return (A101)

Expected Yearly total energy demand (A99)

Yearly renewable Energy Ratio (A108)

Yearly CO2 Emission (A111)

35 €/m2

30 years

%

0 kWh/m2

0 %

kg/m2

Expected Global Cost (A98).

Expected Payback time (A100)

Expected Internal rate of return (A101)

Expected Yearly total energy demand (A99)

Yearly renewable Energy Ratio (A108)

Yearly CO2 Emission (A111)

30 €/m2

30 years

%

0 kWh/m2

0 %

kg/m2

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Decision Support System

Click on One Solution to See Full Details Left Column

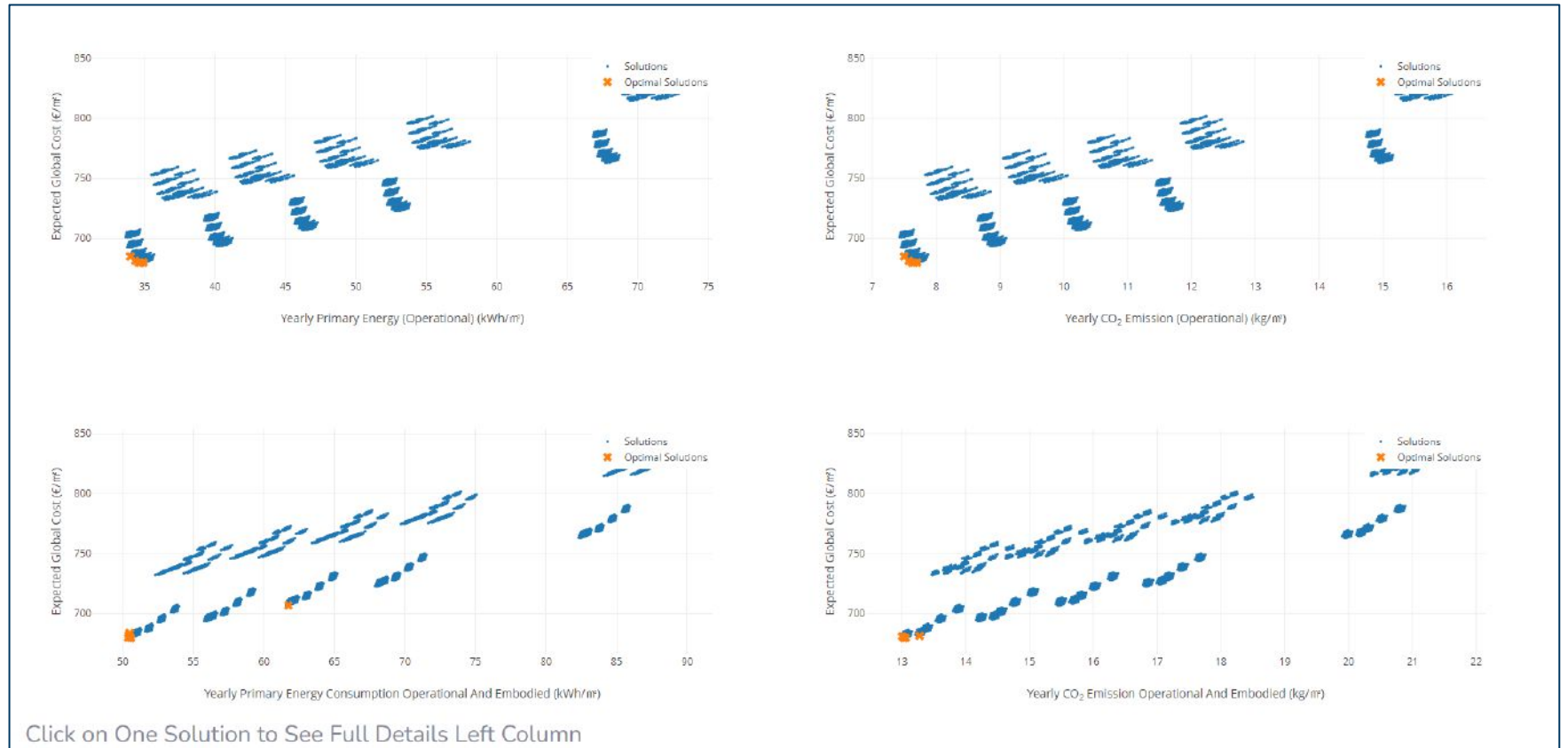
Show **10** entries Search:

Description	Expected Initial Investment per Sqm	Payback Time	Expected Global Cost	Yearly Primary Energy	PVInstalled	MIMO	Heat Pumps	SmartFanCoilDHW	SmartFanCoilHVACInstalled
Retrofit Wall Package 1 - 50mm Retrofit Roof Package 1 - 50mm Retrofit Basement Package 1 - 50mm New Windows Type 1 PV0	345.1560	22.74	820.82	72.94	0	1	2	12	42
Retrofit Wall Package 1 - 50mm Retrofit Roof Package 1 - 50mm Retrofit Basement Package 1 - 50mm New Windows Type 1 PV10	371.6847	20.68	739.04	40.12	10	1	2	12	42
Retrofit Wall Package 1 - 50mm Retrofit Roof Package 1 - 50mm Retrofit Basement Package 1 - 50mm New Windows Type 1 PV4	356.1101	22.10	780.77	58.09	4	1	2	12	42
Retrofit Wall Package 1 - 50mm Retrofit Roof Package 1 - 50mm Retrofit Basement Package 1 - 50mm New Windows Type 1 PV6	361.5822	21.53	765.27	51.56	6	1	2	12	42
Retrofit Wall Package 1 - 50mm Retrofit Roof Package 1 - 50mm Retrofit Basement Package 1 - 50mm New Windows Type 1 PV8	367.0542	21.08	752.43	45.61	8	1	2	12	42
Retrofit Wall Package 1 - 50mm Retrofit Roof Package 1 - 50mm Retrofit Basement Package 1 - 50mm New Windows Type 2 PV0	352.4004	24.01	822.57	71.61	0	1	2	12	42
Retrofit Wall Package 1 - 50mm Retrofit Roof Package 1 - 50mm Retrofit Basement Package 1 - 50mm New Windows Type 2 PV10	378.9191	20.91	740.55	38.75	10	1	2	12	42
Retrofit Wall Package 1 - 50mm Retrofit Roof Package 1 - 50mm Retrofit Basement Package 1 - 50mm New Windows Type 2 PV4	363.3445	22.34	782.46	56.75	4	1	2	12	42
Retrofit Wall Package 1 - 50mm Retrofit Roof Package 1 - 50mm Retrofit Basement Package 1 - 50mm New Windows Type 2 PV6	368.8165	21.77	766.90	50.23	6	1	2	12	42
Retrofit Wall Package 1 - 50mm Retrofit Roof Package 1 - 50mm Retrofit Basement Package 1 - 50mm New Windows Type 2 PV8	374.2066	21.32	754.00	44.25	8	1	2	12	42

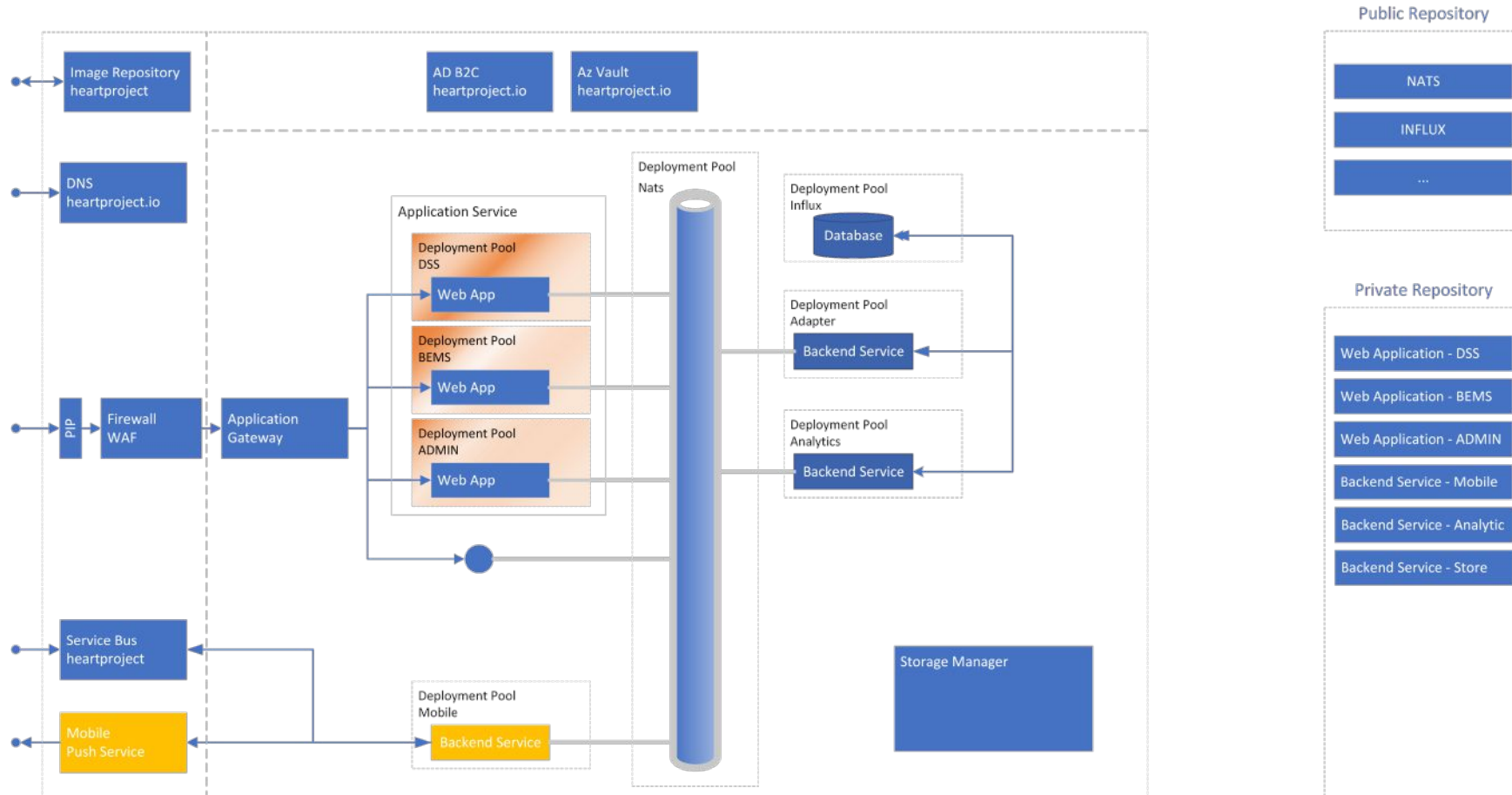
Showing 1 to 10 of 3,000 entries Previous **1** 2 3 4 5 ... 300 Next

Cloud Platform

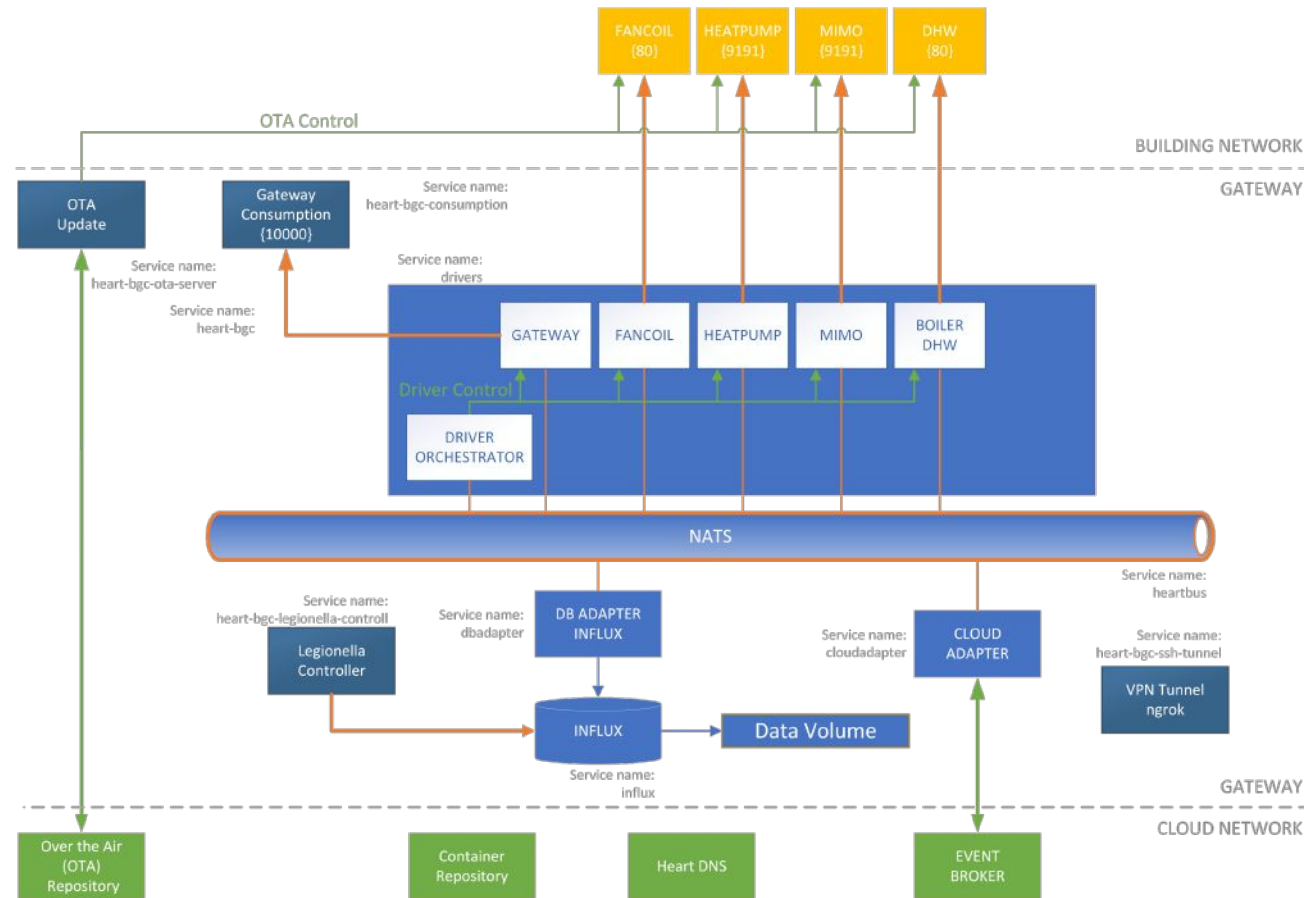
Decision Support System



Cloud Platform - Technical



Cloud Platform - Technical



About HEART

The Holistic Energy and Architectural Retrofit Toolkit (HEART) brings together different components and technologies that can transform existing buildings into smart buildings, thus contributing to the Renovation Wave in order to decarbonise Europe's building stock. In developing this toolkit, the project advances and improves energy efficiency and the use of renewable energies in buildings across Europe, particularly in Central and Southern Europe, where climate change is leading to increased electricity consumption during the summer and winter seasons.

Get in touch



<https://heartproject.eu/>



sudhanshu@revolve.media



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