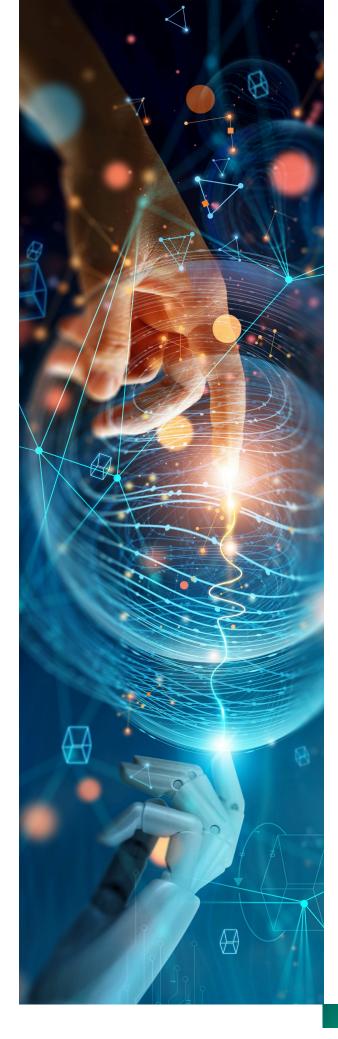
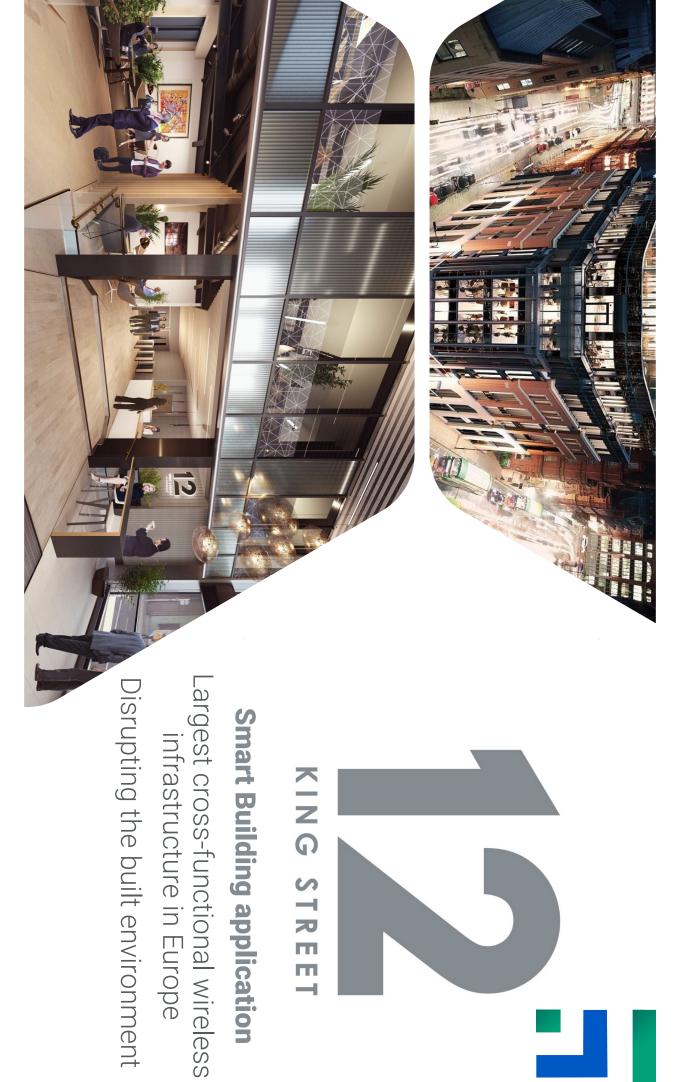
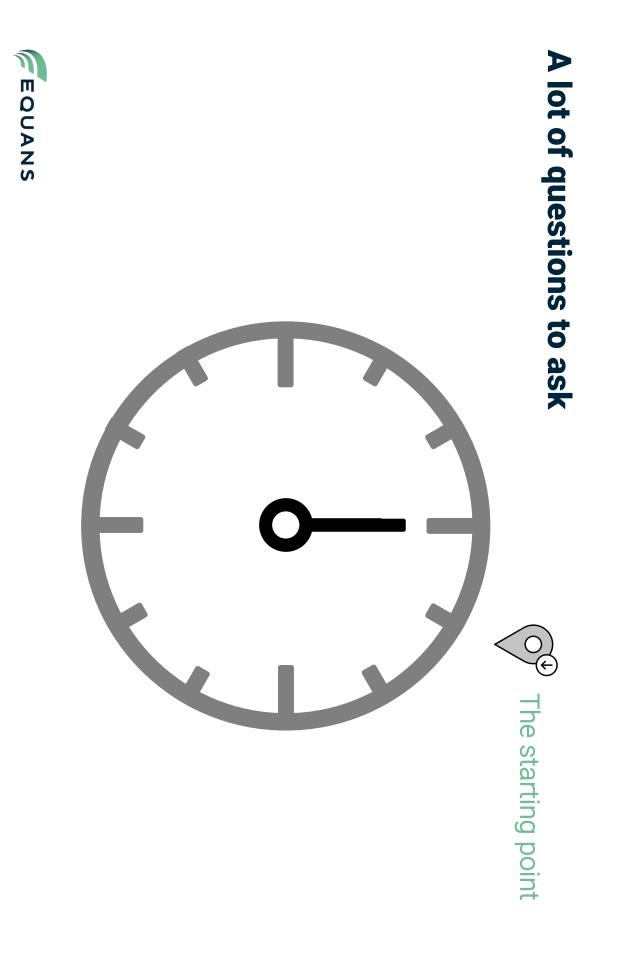


Delivering the digital transition Mark Davenport, Smart Buildings Director, Equans UK & Ireland









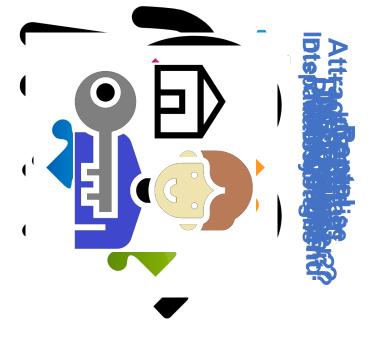




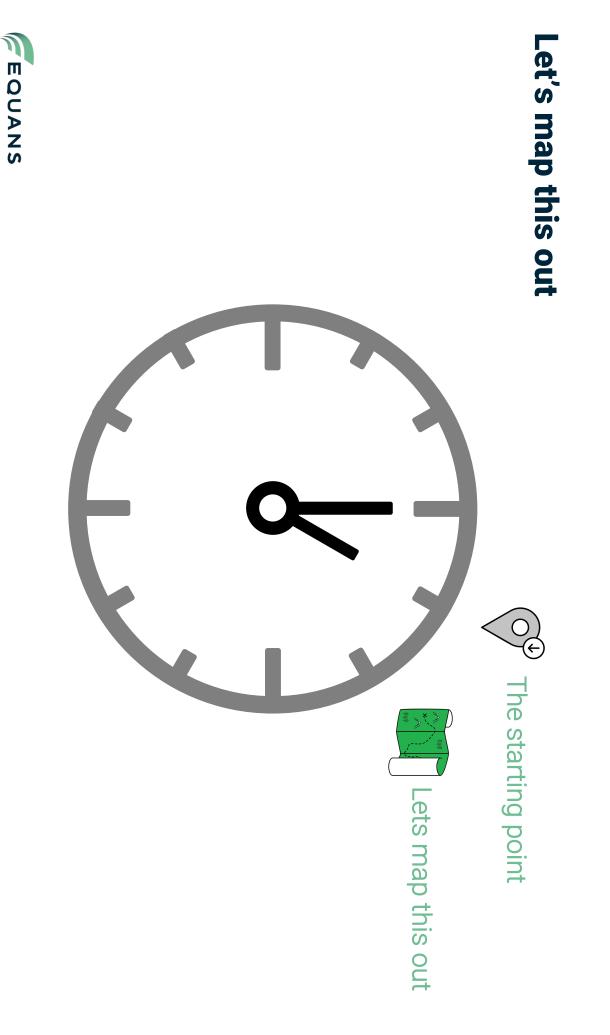
















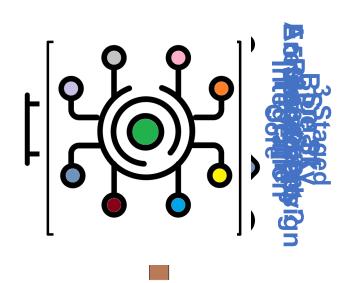
Let's map this out





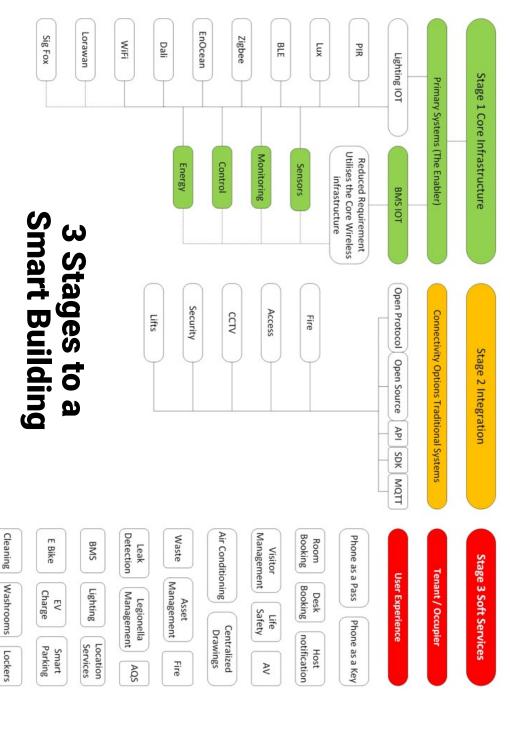








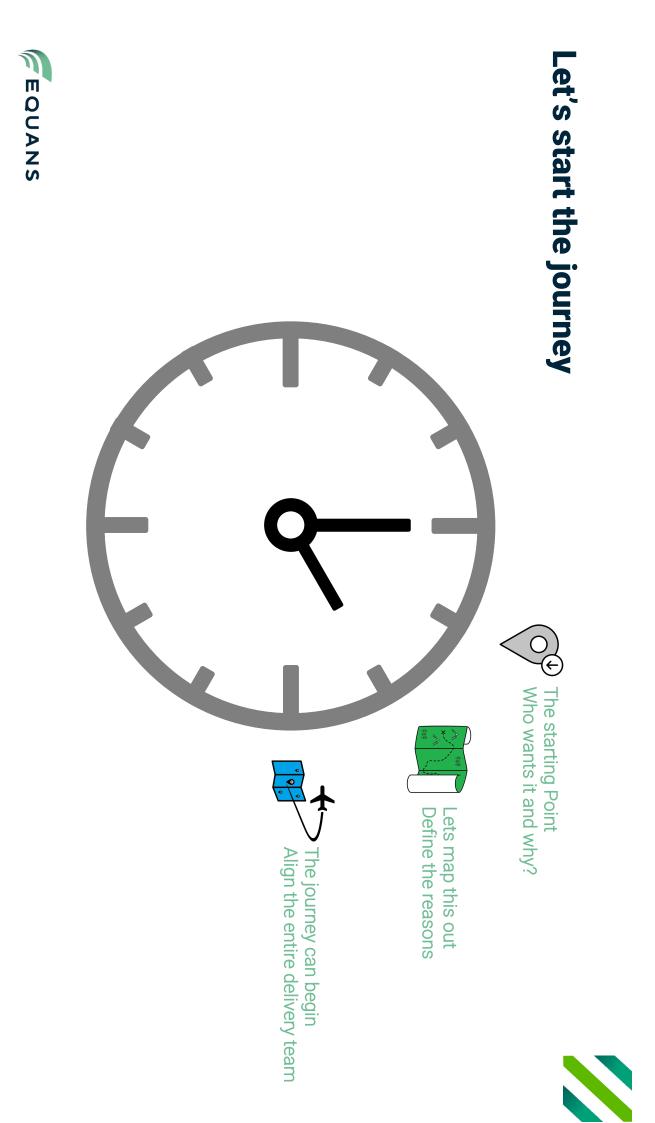
EQUANS







App Structure







Define the process

6

Educational journey



Defining the infrastructure



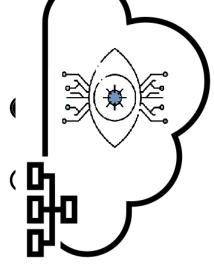








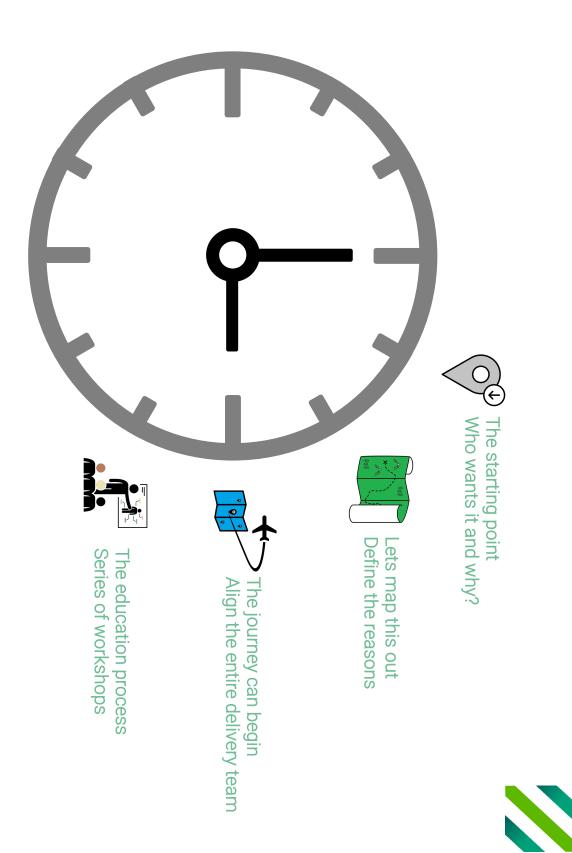
















Wizard workshops

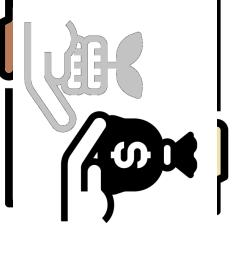




Desired outcomes



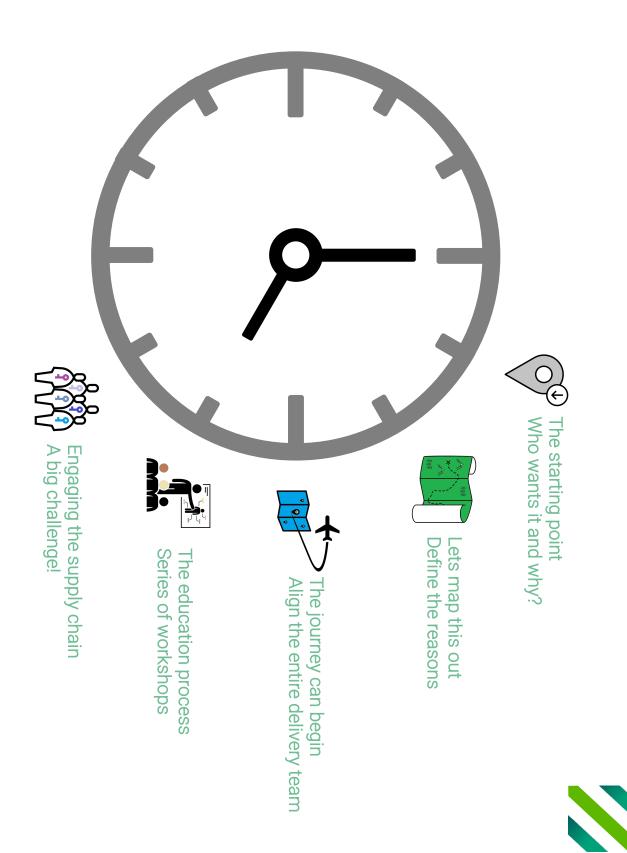
Edute enu Rene







Human factors







The biggest challenge



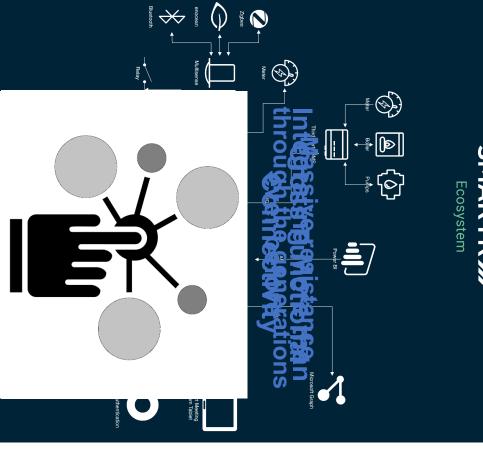
Totally disrupts the construction model







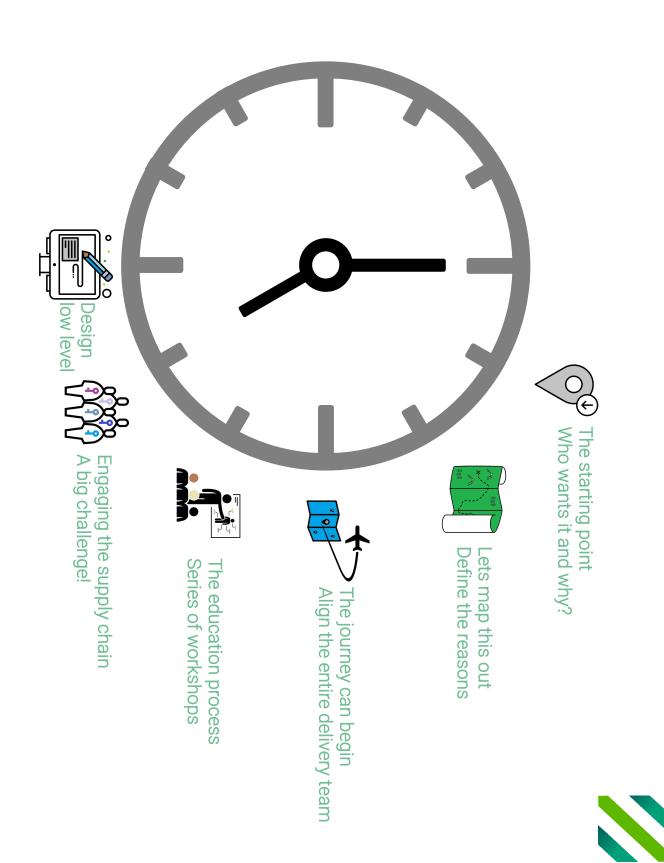














Integration design

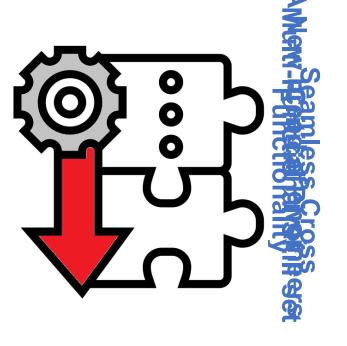


A new skill set very much in development



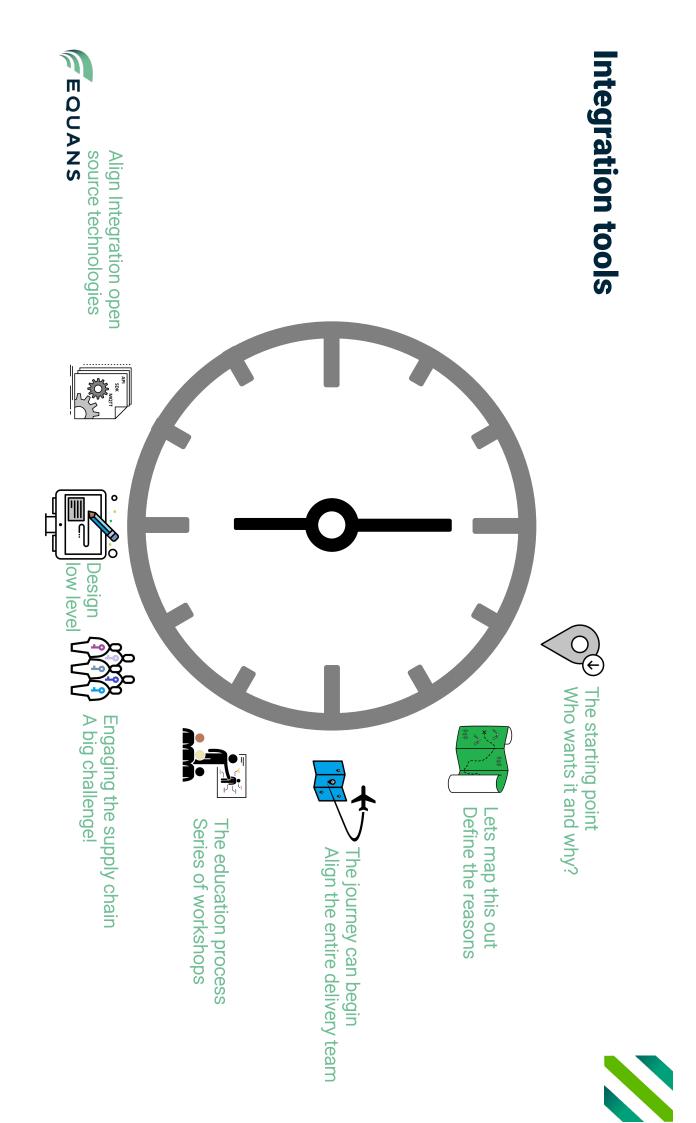


Amalgamate wired and wireless technologies











Align the technologies

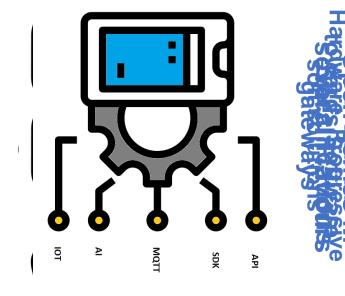


Open explained

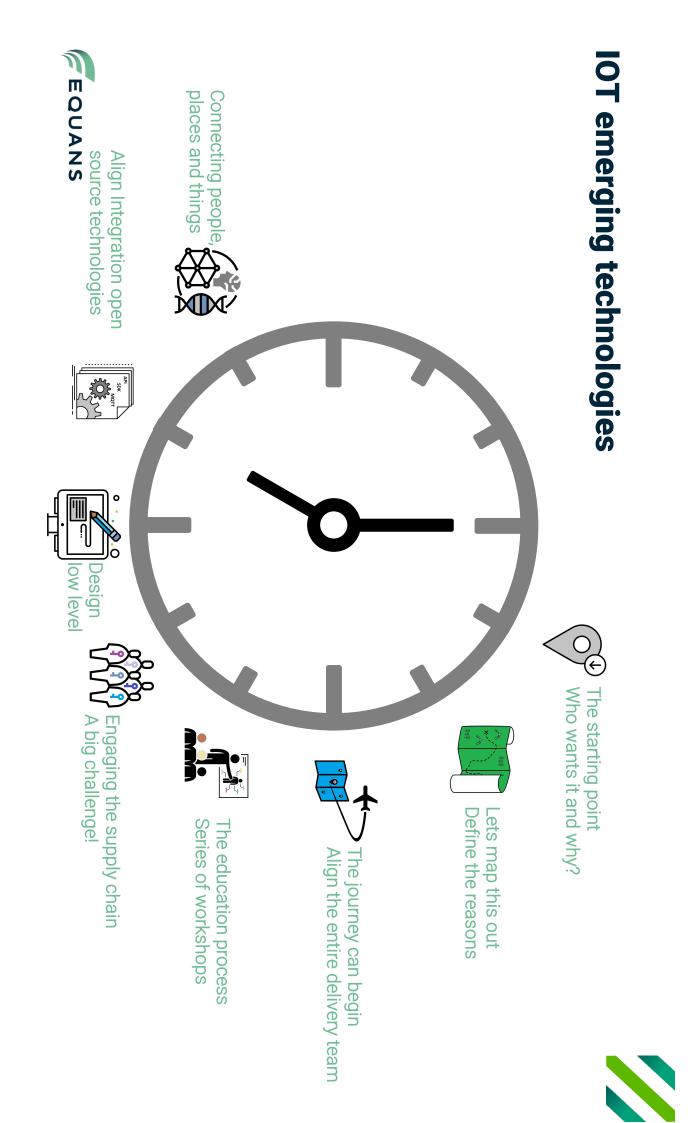


Multiple networks and hardware gateways

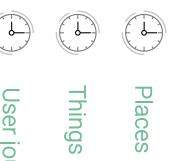










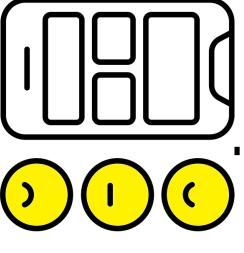


People

User journey









De-skilled deployment

Simple config tools

- Discover networks
- Self-build networks
- Multiple networks in a single device
- Identify protocols
- Identify products
- Add products
- Link products

Automated strategy

- Strategy blocks auto populate
- New strategies can be added
- Node red open-source tools

Self-build UI

- User interface auto populates
- Increased features
- Cross functional technologies

SMARTR >>>

Connect

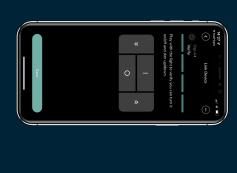


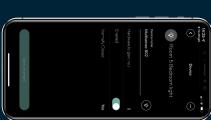


	Application	Operating System Balena OS	System Logs Logs	Identify	Template	Location	Tenant	uuo	Name	14:28 4 •Trailingte
About										room1
Monere	localapp	balenaOS 280.3+rev1	Recording logs >	\$				abc6789		•

 \odot

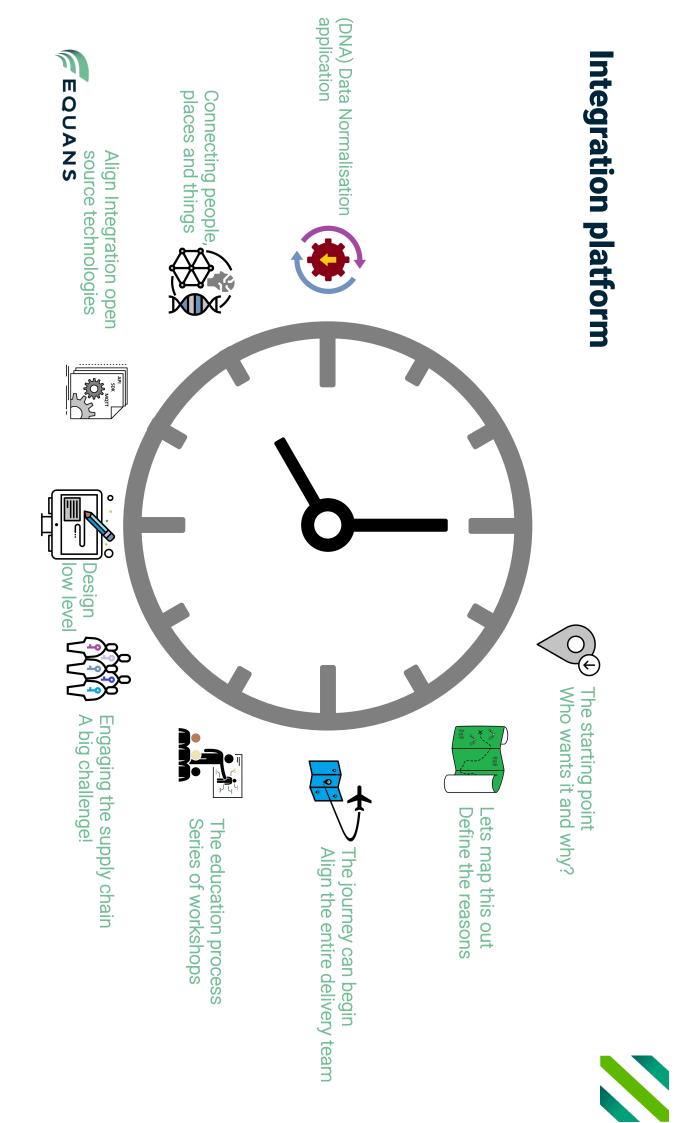
Devices



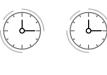


Amazonian









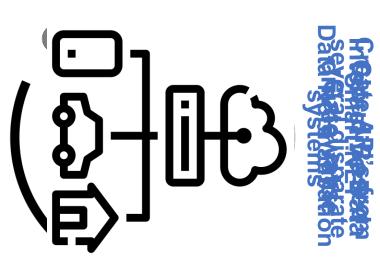
Create standard language for all connected systems





Removing the need for hardware gateways

6

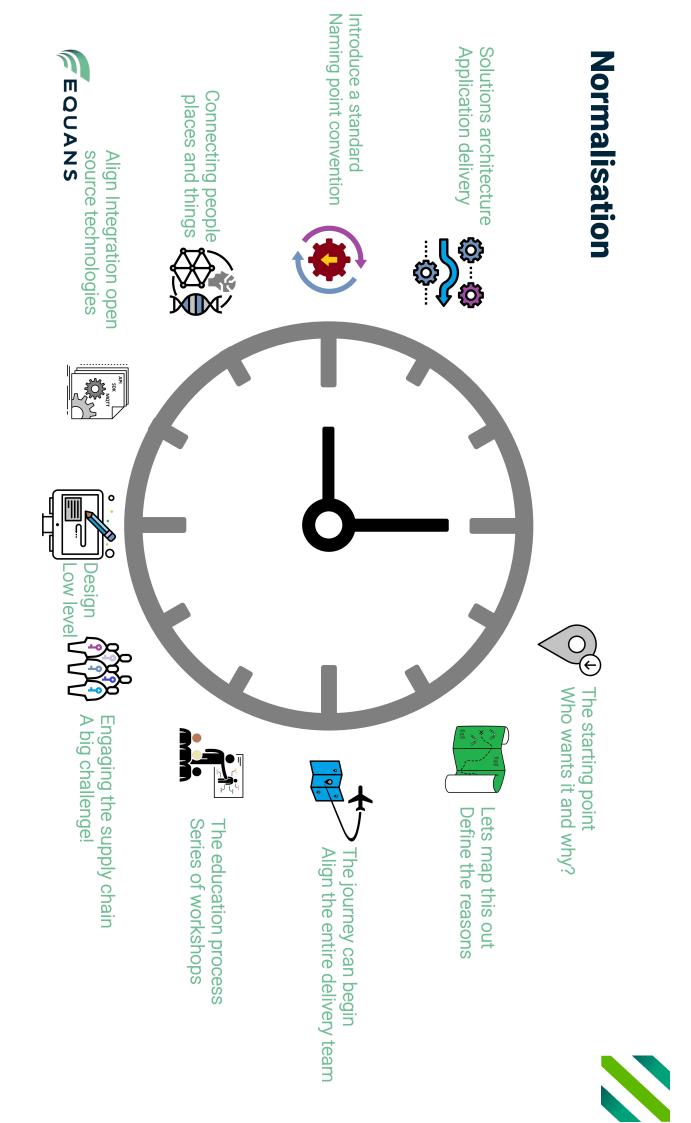




+ Add coordinat

SMART









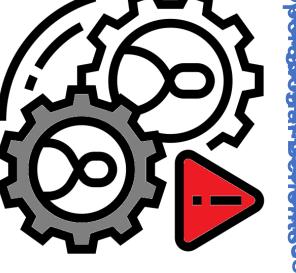
Where do they come from



Building Intelligence, connectivity, communications









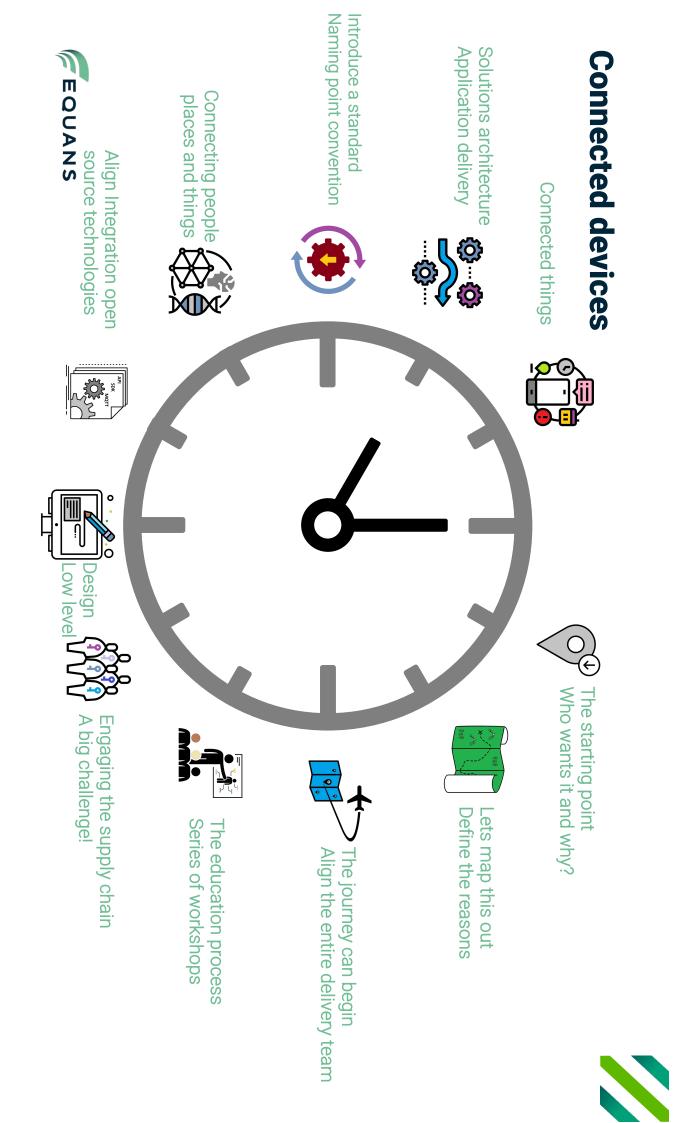














Connected things



Edge devices

٦ ا



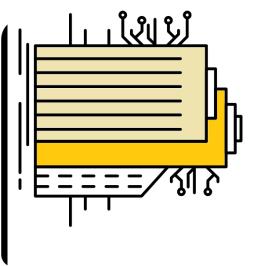


6

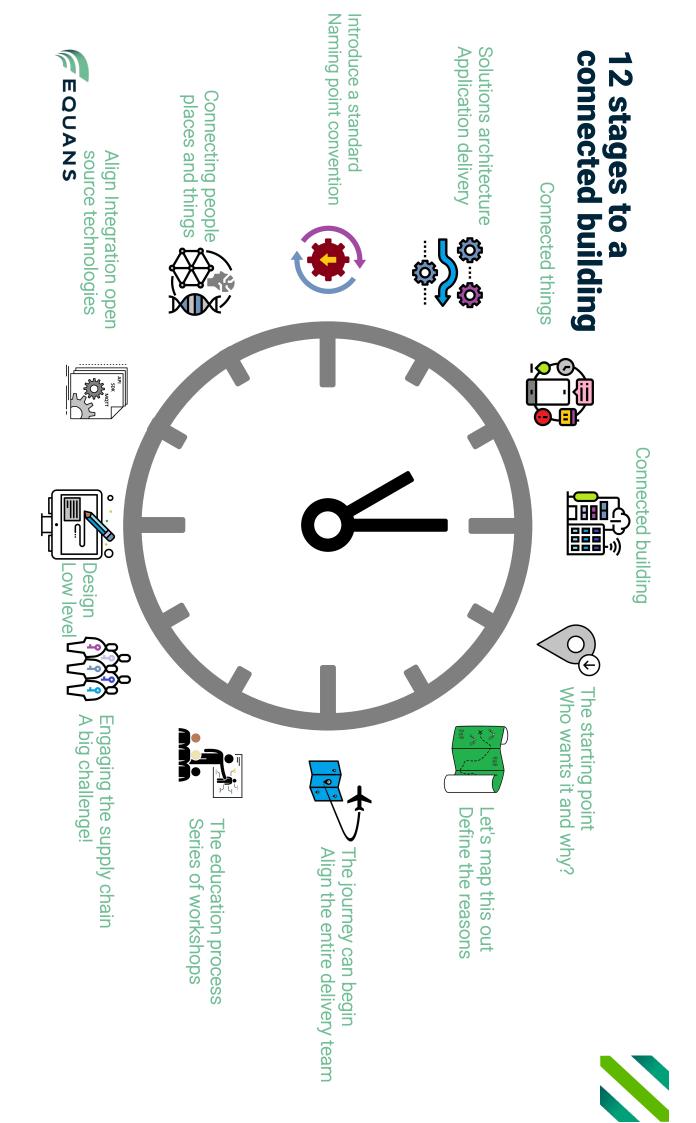
The journey













Integrated and connected buildings



Seamless user journeys

Integrating people, places and things



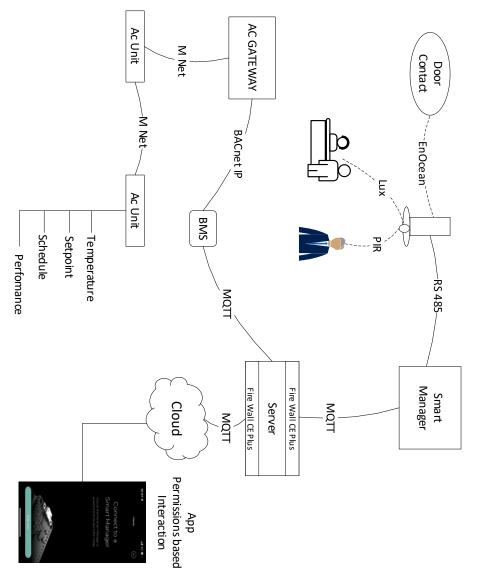
(-) We have disrupted, we have arrived







Smart Building – cross-functional integration

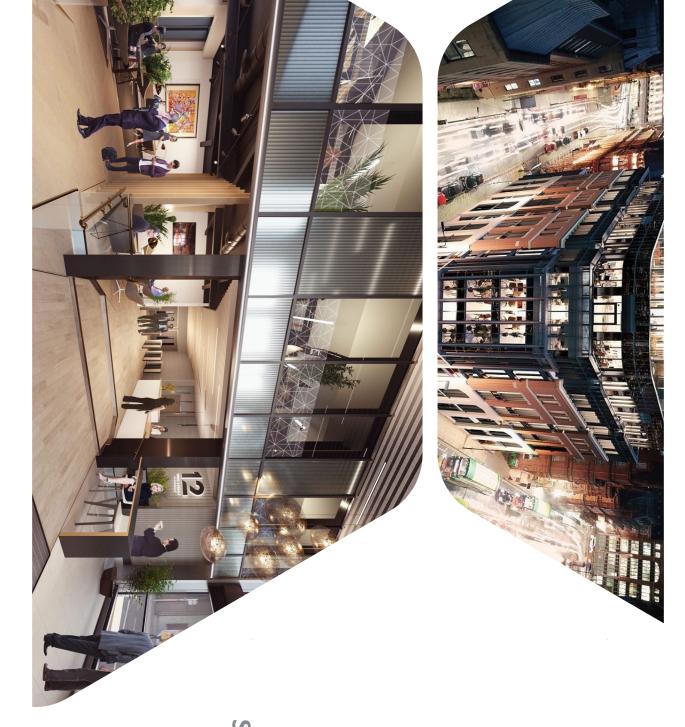


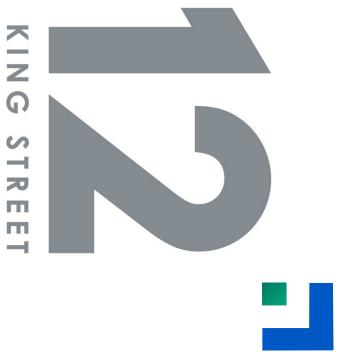
- Seamless infrastructure
- Multiple protocols
- Managed through 1 network

•

- Open-source connectivity
- Global standards
- Systems integration
- Less is more
- App based permissions

•





Smart Building application - the journey

Meet Alice,

an agile worker who works from multiple offices and home. When Alice attends the office though she wants to make sure everything is in place to do so.



Alice receives an email

how the project is going. Alice's client has requested a face-to-face meeting to discuss

Alice uses the Smartr app to book a:

- Meeting Room (with food order)
- Parking spot
- Desk Locker

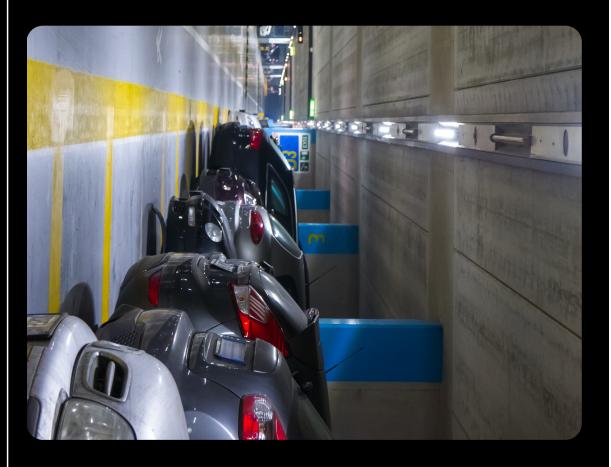
The tech in the background



being integrated. Meaning she doesn't have to use multiple apps to make bookings. Alice only needs to interact with the Smartr application thanks to all the systems







Alice arrives at the car park

car park spot is hers. notification is also sent to her phone as a reminder as to which The barrier will automatically open as Alice's car pulls up. A

Car Park spot – 2.01 ech in the background	Smartr	now
h in the background	Car Park spot – 2.01	
	h in the background	

The t

St

the parking spot. Smartr is then made aware that the user is at the car park and notifies the user of ANPR reads the number plate and notifies access control to open the barrier.

8:30 am

Alice presents her pass

Alice can use her phone as a pass. The access barrier allows for both NFC and QR codes meaning



The tech in the background



that are regenerated every 3 seconds. The Smartr app integrates with Access Control and generates encrypted QR codes

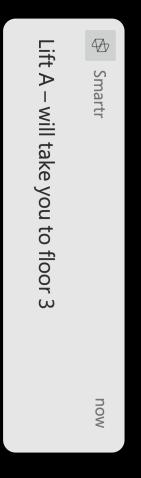






Alice receives a lift notification

automatically called when Alice presented her phone to the barrier. As Smartr knows Alice's current location and destination a lift is A notification is sent to Alice advising which lift to enter.



The tech in the background



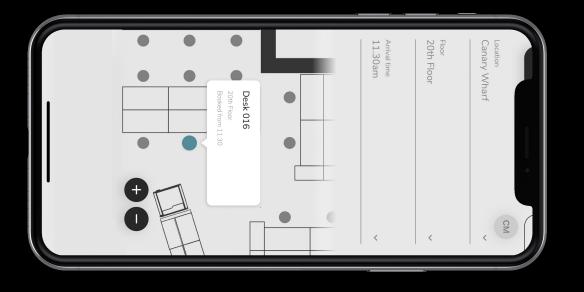
From there looking at the desk and room booking we can identify what floor she needs As Alice has presented her pass to access the lift lobby, we know her current location. floor if required to go to. At any point Alice can present her pass at the lift lobby screen and change the

8:35 am

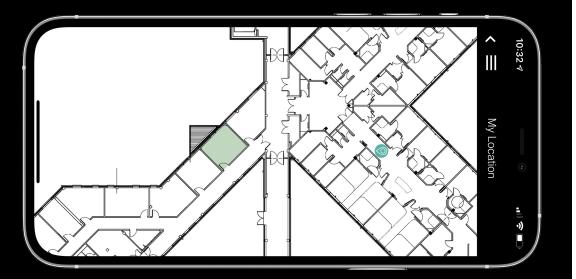
Booking reminder notification

can also use the Smartr app to view the location of the desk. Alice receives a notification confirming her seat number. She

Smartr	now
You Booked - Desk 016 & Locker G12	
The tech in the background	
Smartr Location Based Services Smart Lockers	\bigcup
Using Location Based Services (LBS) we can identify that Alice has arrived on the third floor and send a reminder of the desk she has booked.	as arrived



8:36 am



Way Findings / Maps

and their current location (imaging google maps for your building) Way Finding allows user to see the location they are trying to get to



The tech in the background



beaconing from the Light Smart and reflect this in a user-friendly map. The Smartr application can triangulate the users position by using the Bluetooth

8:37 am

Host notification

the building. Alice receives a notification confirming her guest has arrived in

Smartr Your guest 'Tom' has arrived

now

The tech in the background



When Alice's client presents his pass to the access barrier, she receives a notification that he is in the building and on his way up.

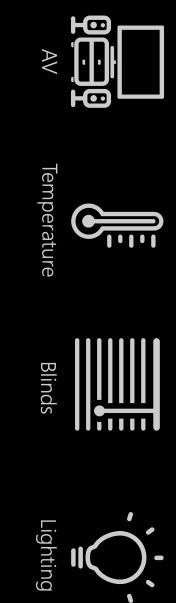






Room Control

her Smartr app or on the Smartr in room tablet. Whilst in the meeting room Alice can control her environment via



The tech in the background



or by personally setting each item. Smartr integrates with AV, BMS, Blinds and Lighting to deliver a simple user interface for Alice to control her environment. This can be done by selecting predefined modes

10:59 am

