q-bot

www.q-bot.co
info@q-bot.co
+44 (0) 208 877 2709

0. Agenda

- Introduction to Q-Bot
- Surveys
- 3D surveying system
- Case studies
- Client perspective – L&Q

Confidential © Q-Bot Ltd. 2018

1. Introduction to Q-Bot

Confidential & © Q-Bot Ltd. 2018

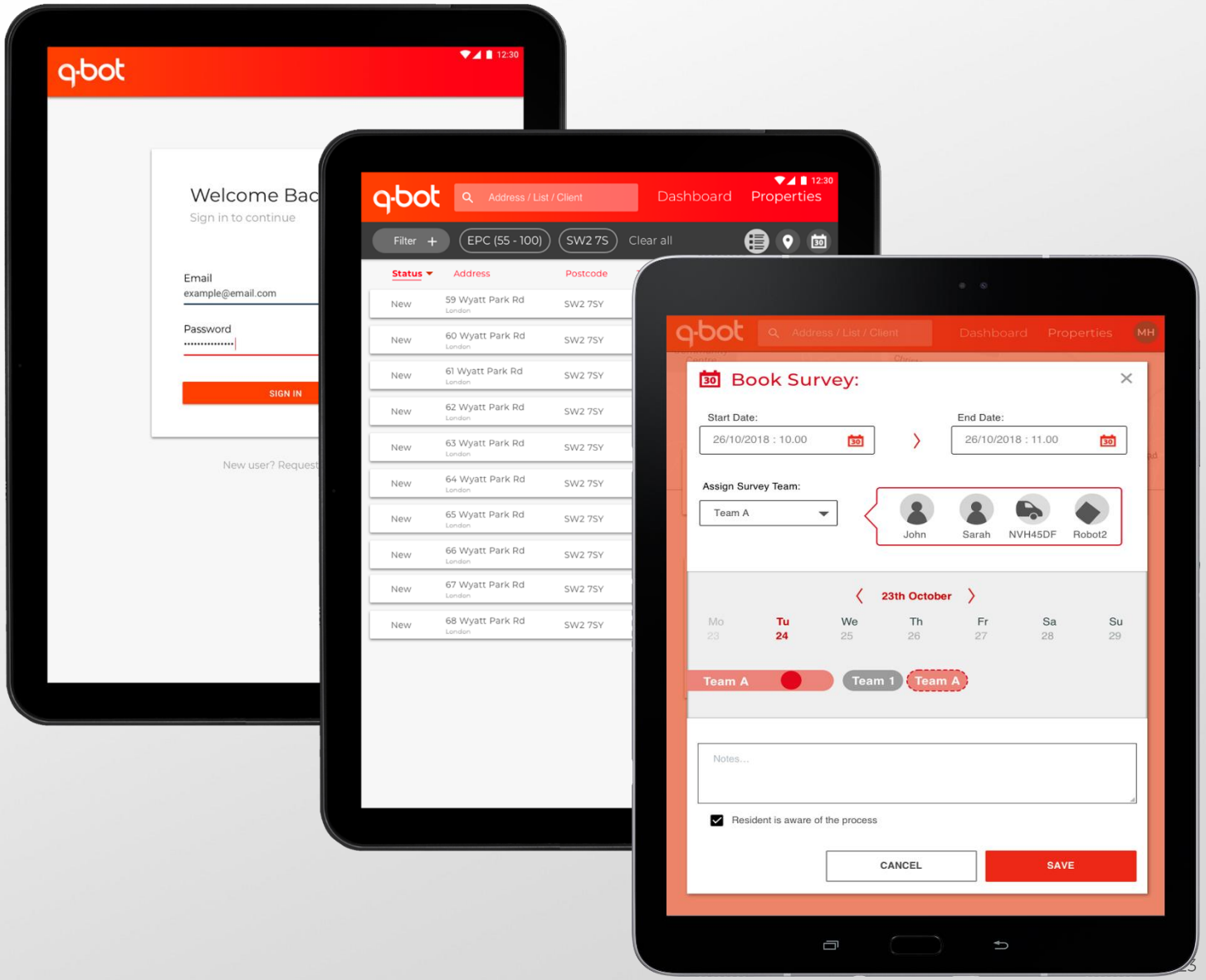
1. Introduction to Q-Bot

Management system:

Integrate with a property database: The system integrates with asset management systems and a nationwide property registers to filter and prioritise work.

Identify properties and plan work: The app allows properties to be identified that need a stock condition survey.

Book a survey or install: Work is booked into the schedule can be linked to communication systems.



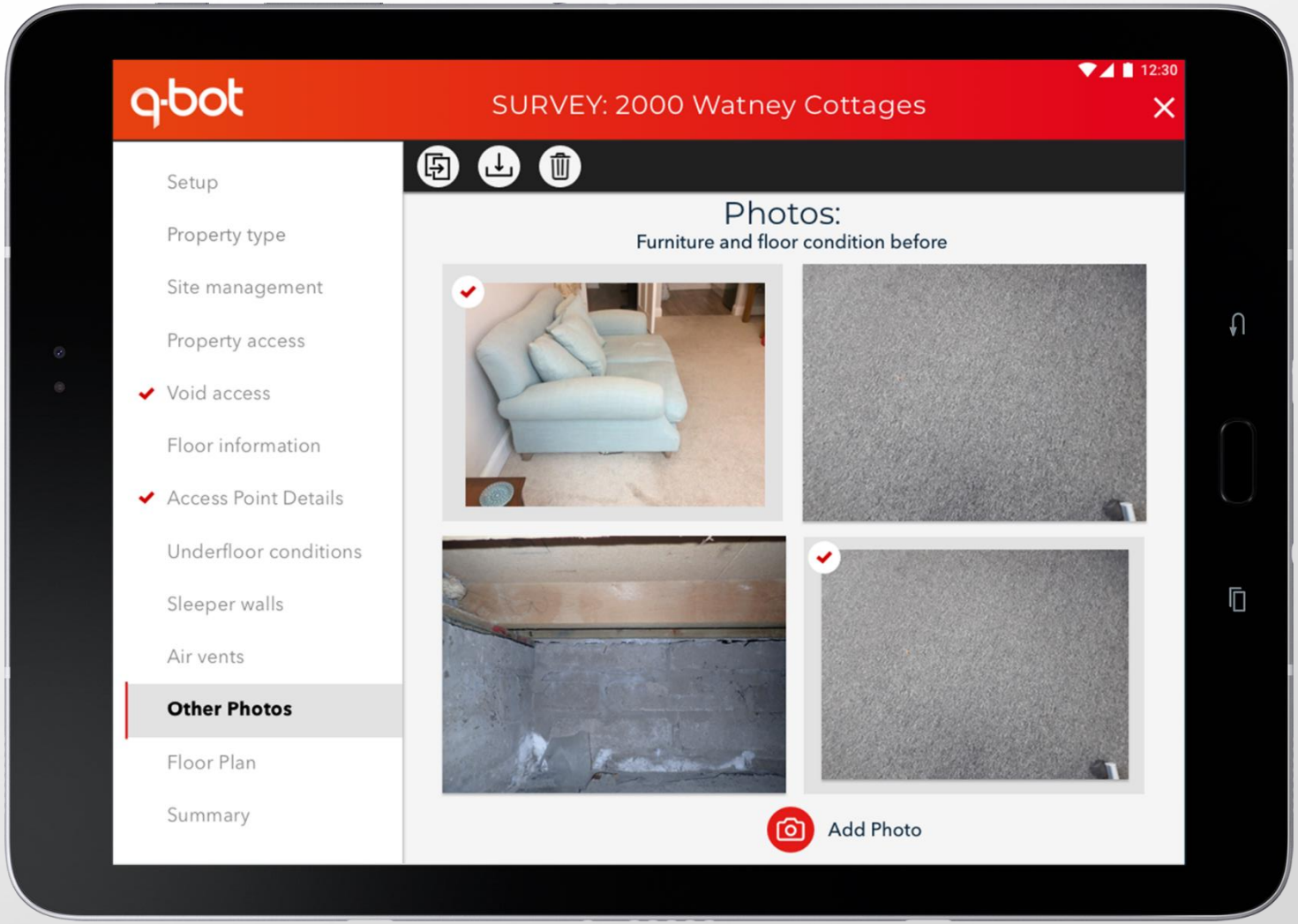
Confidential & © Q-Bot Ltd. 2018

1. Introduction to Q-Bot

Surveys:

Survey form: An easily customised survey form allows property specific information to be captured including photos and floorplans.

Preparation of estimates: The cost and impact of different options to maintain or upgrade the property can be calculated.



Confidential & © Q-Bot Ltd. 2018

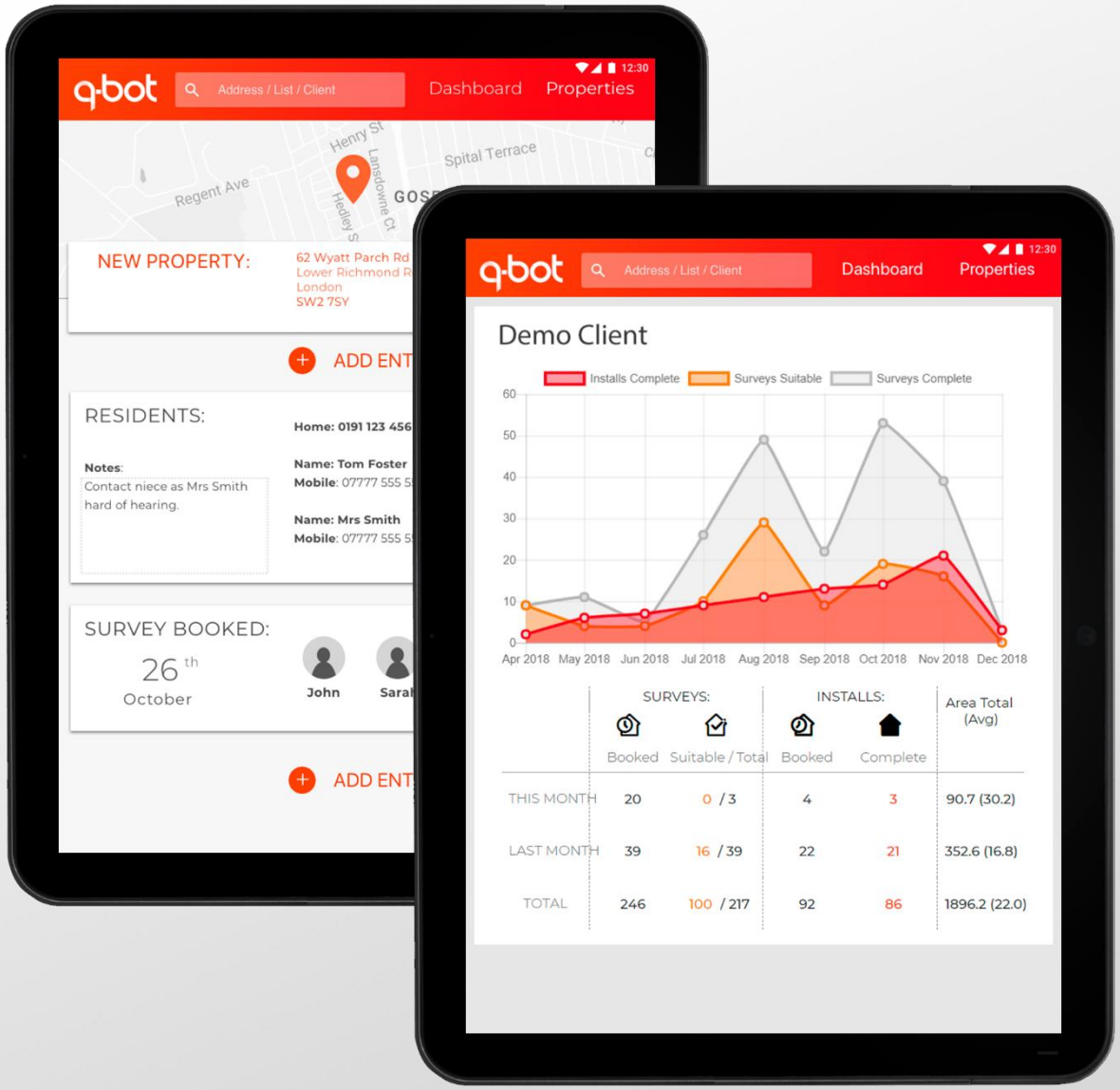
1. Introduction to Q-Bot

Manage outputs:

Compliance checks: The installation can easily be checked by an independent team to ensure compliance.

Performance Tracking: KPIs for each installation team and customer can be reviewed to track progress.

Integration with 3rd Party Systems: Information can be exported and shared with third party systems.



Confidential & © Q-Bot Ltd. 2018

2. Surveys

Challenges when managing property assets:

- A lack of confidence in the data.
- Low fidelity, high cost.
- Poor integration with business processes.
- Reactive decision making.
- The wrong intervention is selected.

Confidential & © Q-Bot Ltd. 2018

3. 3D surveying system

Confidential & © Q-Bot Ltd. 2018

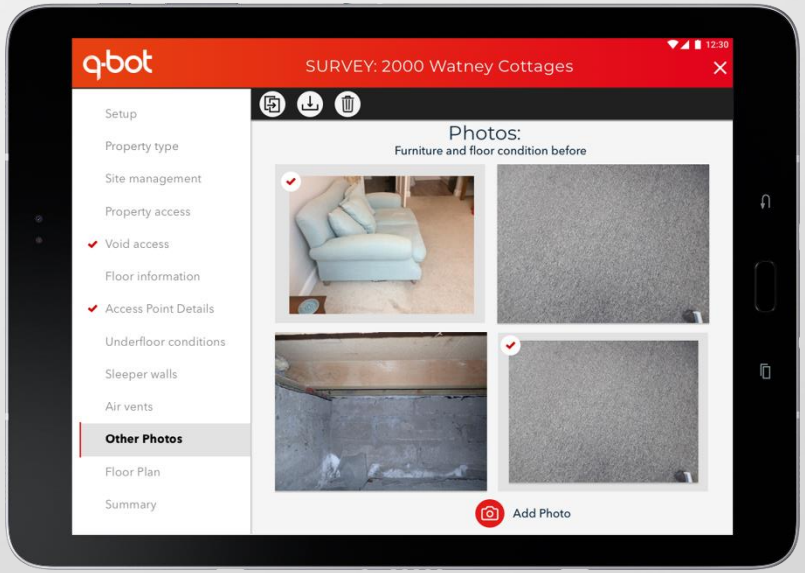
3. 3D surveying system

Stage 1 - Scan each room:

The scanner is placed in the middle of the room and linked to the tablet. A scan takes 60 seconds to collect a full 360 capture of the room. This captures a precise 3D point cloud of the room with a thermal reading for each point.

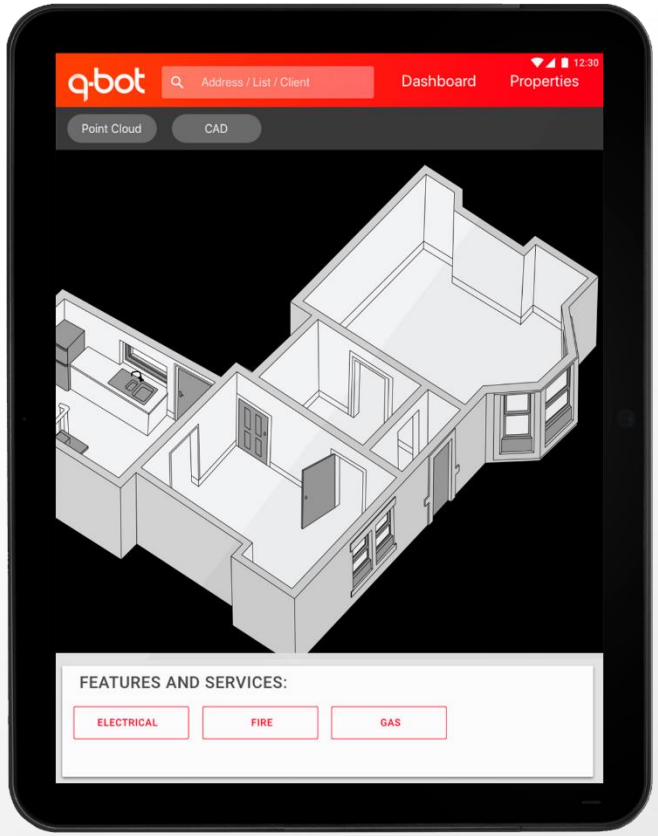
Stage 2 – Capture information:

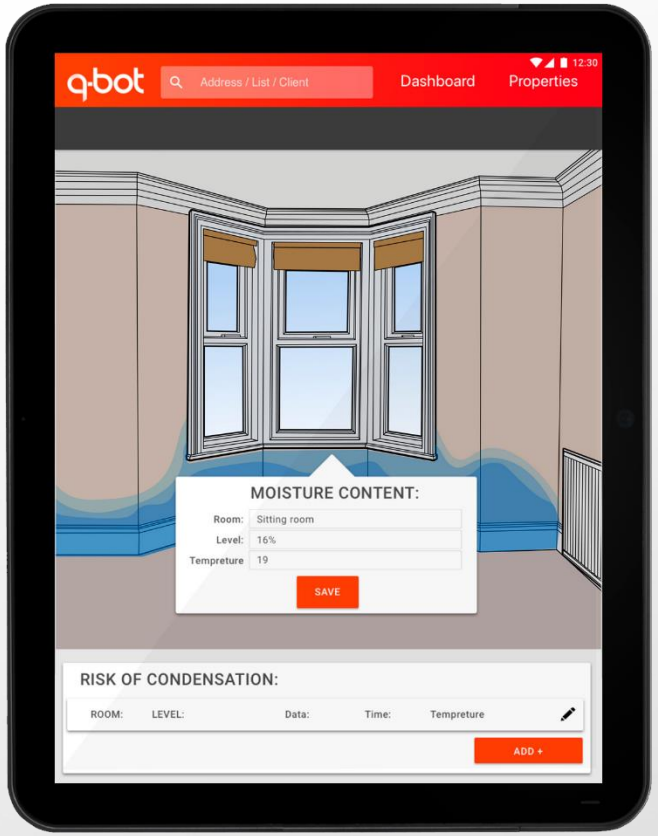
While the scanner is capturing the dimensions and thermal information the surveyor checks and updates the existing information held about the property. Further questions about the elements of the room can be filled out and associated with a location in the 3D scan.

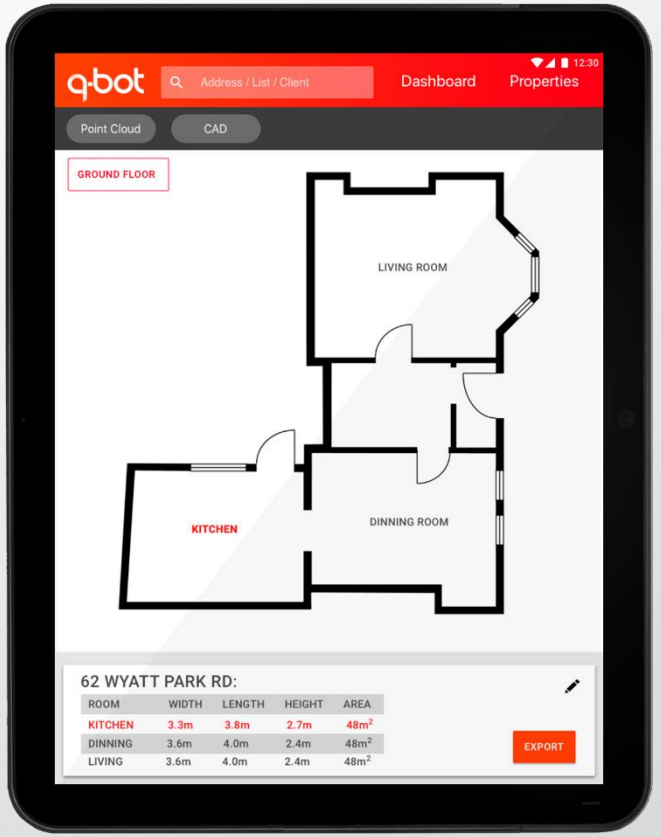


Confidential & © Q-Bot Ltd. 2018

3. 3D surveying system







Stage 3 – Process data

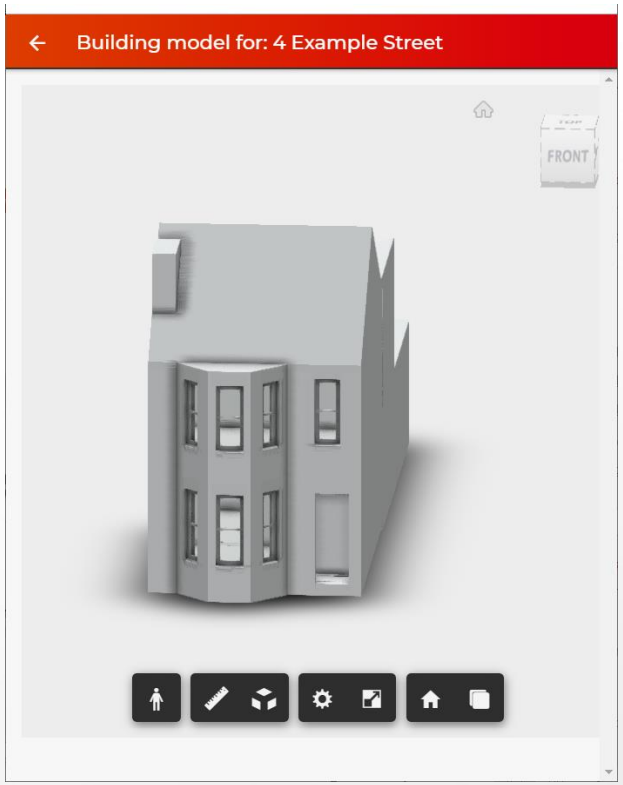
The raw data is converted into a simplified 3D model and AI is used to recognize elements of the room. Unnecessary details such as furniture can be removed from the model while services can be categorised and labelled.

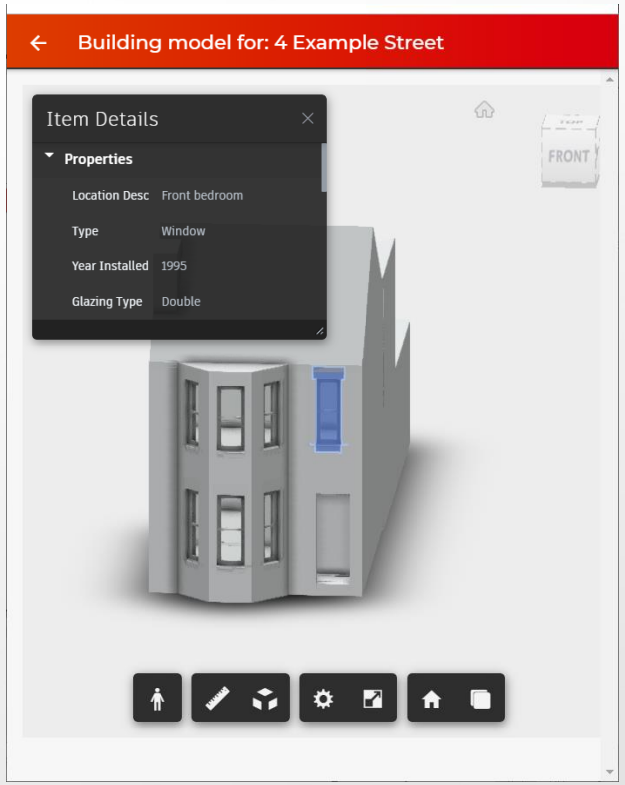
Stage 4 – Annotate:

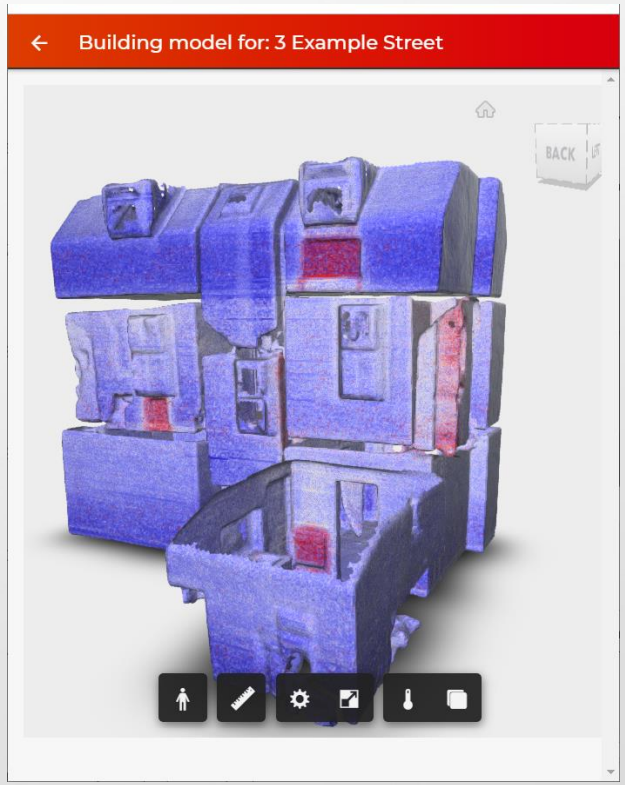
The surveyor can label elements and add further details using the app. Additional data can be overlaid such as the risk of condensation and information can be stored about services.

Confidential & © Q-Bot Ltd. 2018

3. 3D surveying system





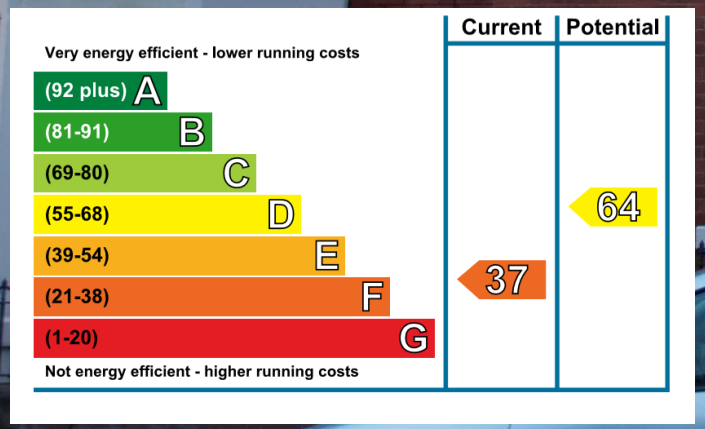


Stage 5 – Share outputs:

Outputs can be viewed online and imported into 3rd party asset management systems: a 2D floorplan and a simple 3D model; dimensions and areas of key building elements; and, detailed thermal and energy efficiency models.

Confidential & © Q-Bot Ltd. 2018

4. Case studies

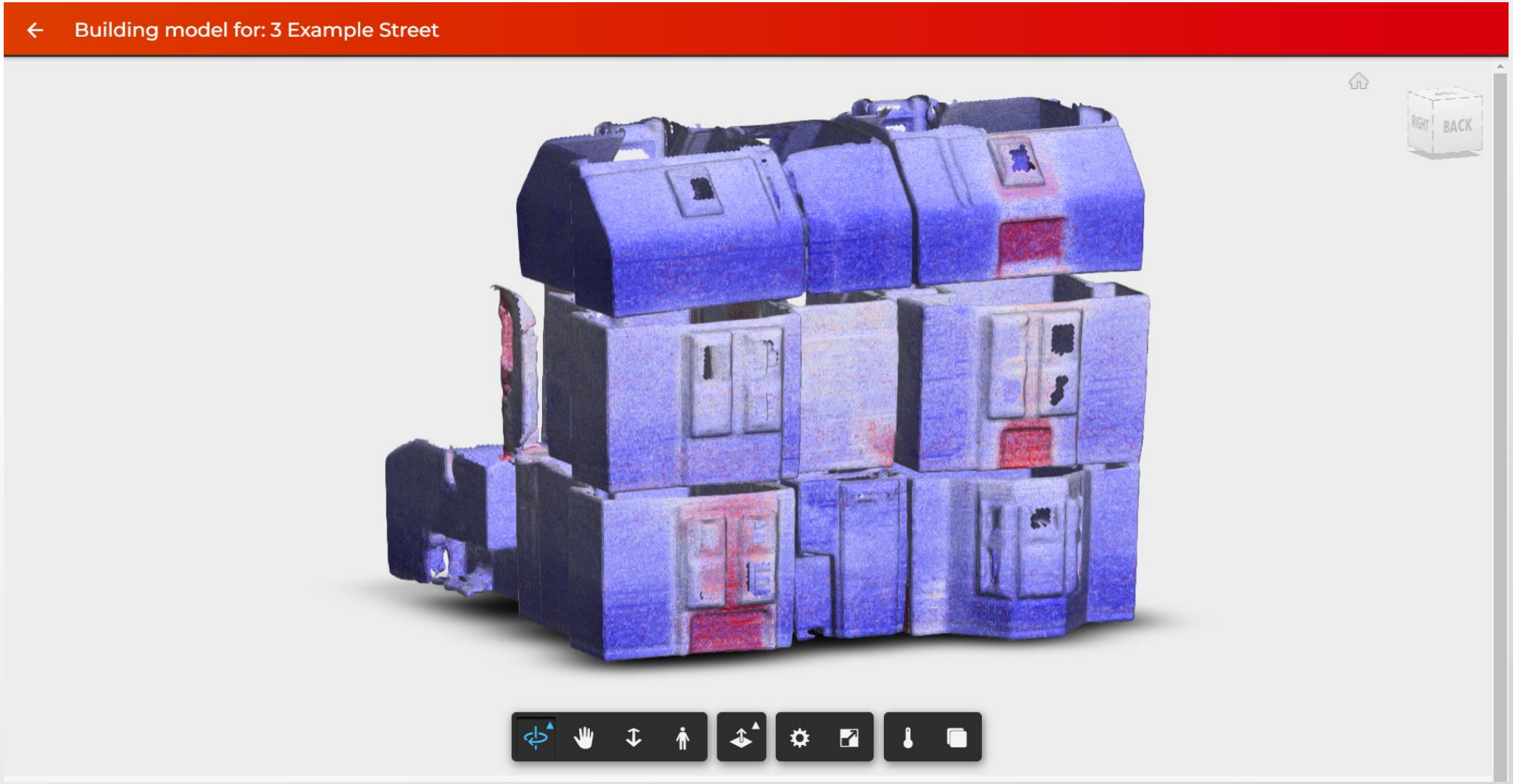


Confidential & © Q-Bot Ltd. 2018

4. Case studies

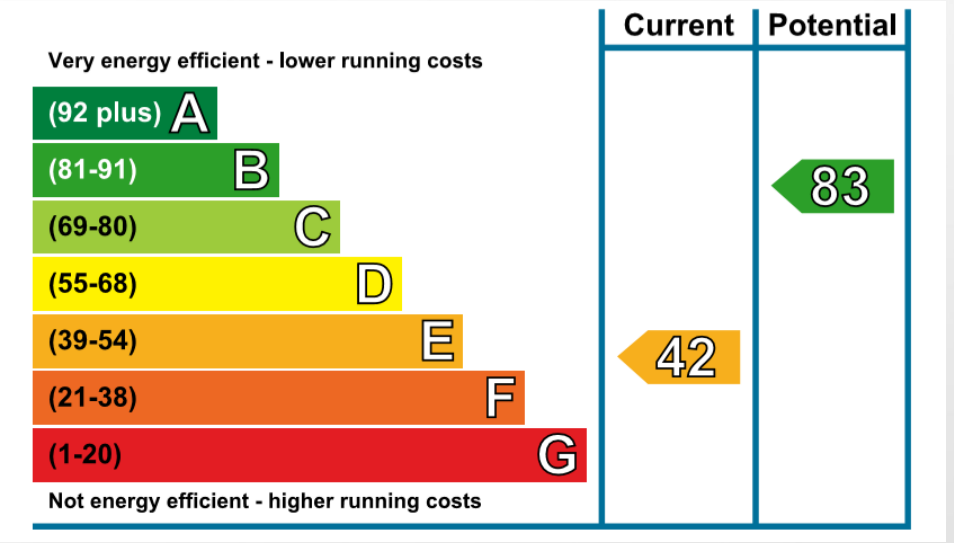
Confidential & © Q-Bot Ltd. 2018

4. Case studies



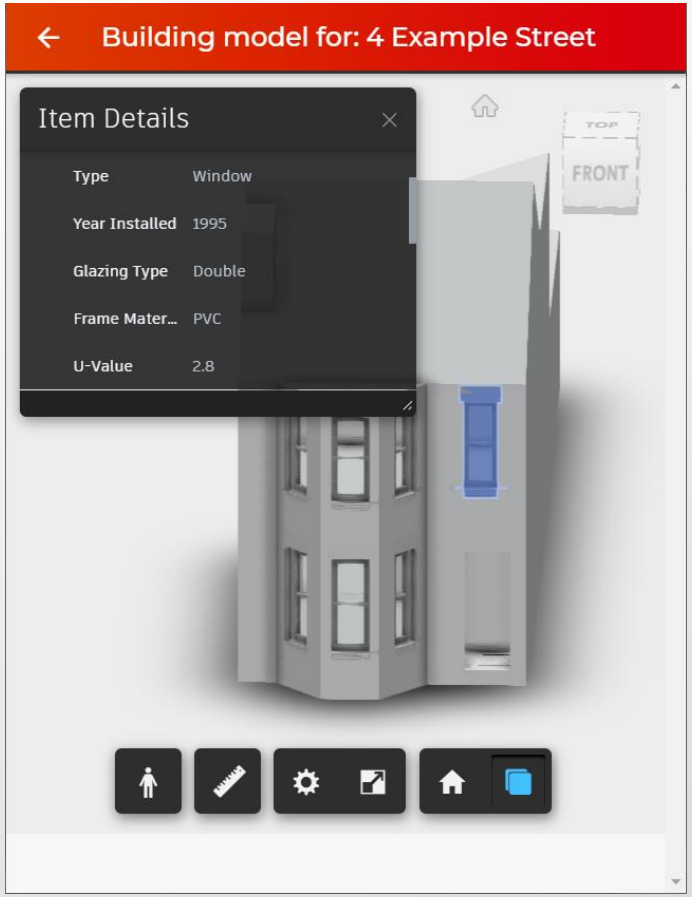
Confidential & © Q-Bot Ltd. 2018

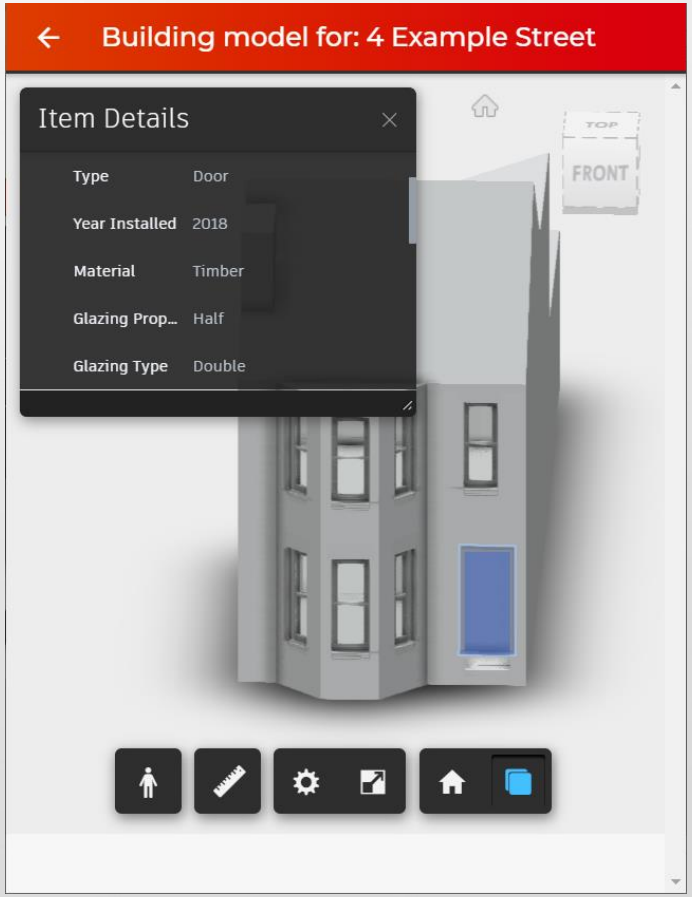
4. Case studies



Confidential & © Q-Bot Ltd. 2018

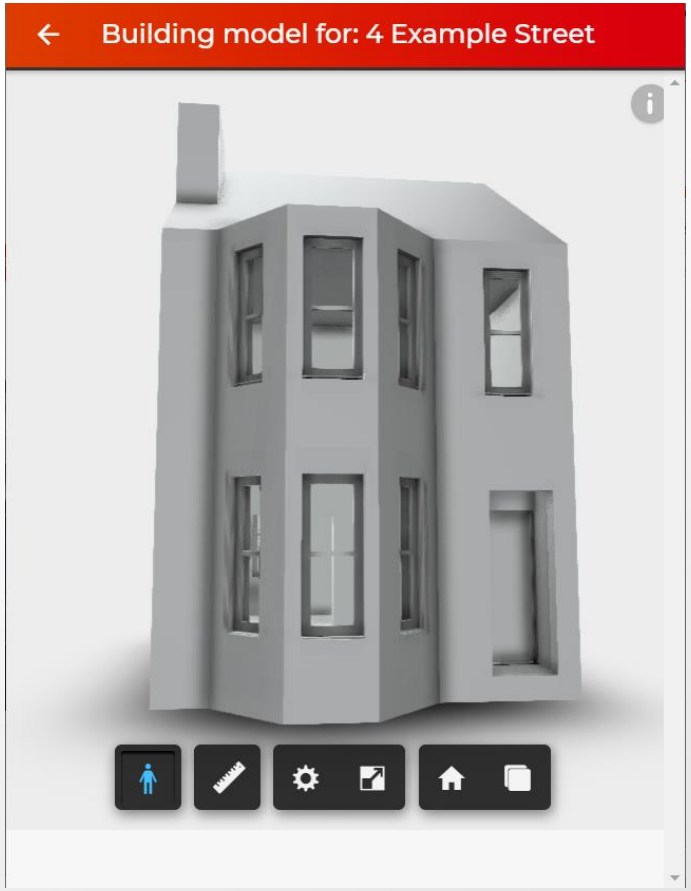
4. Case studies

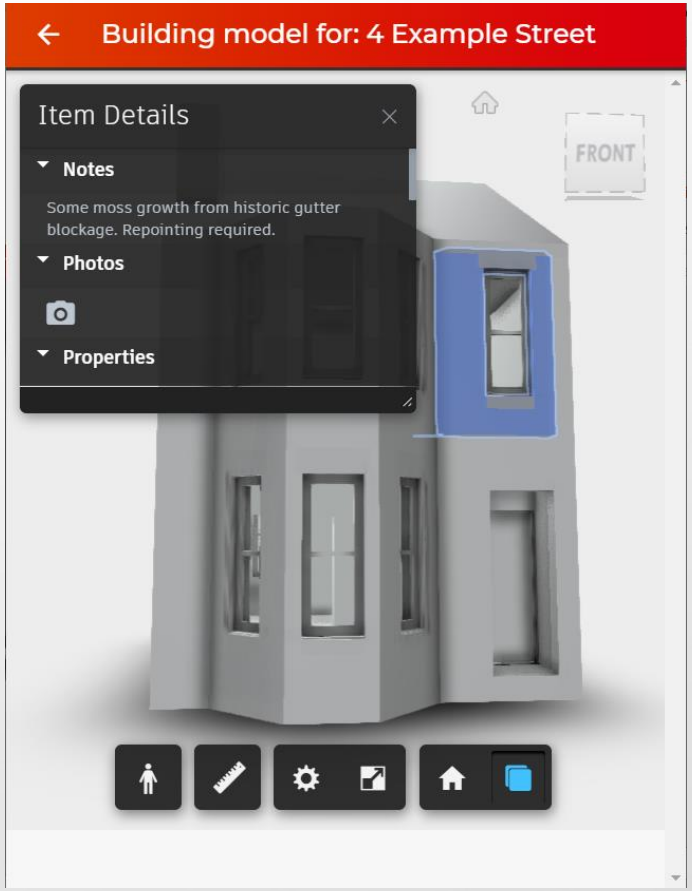


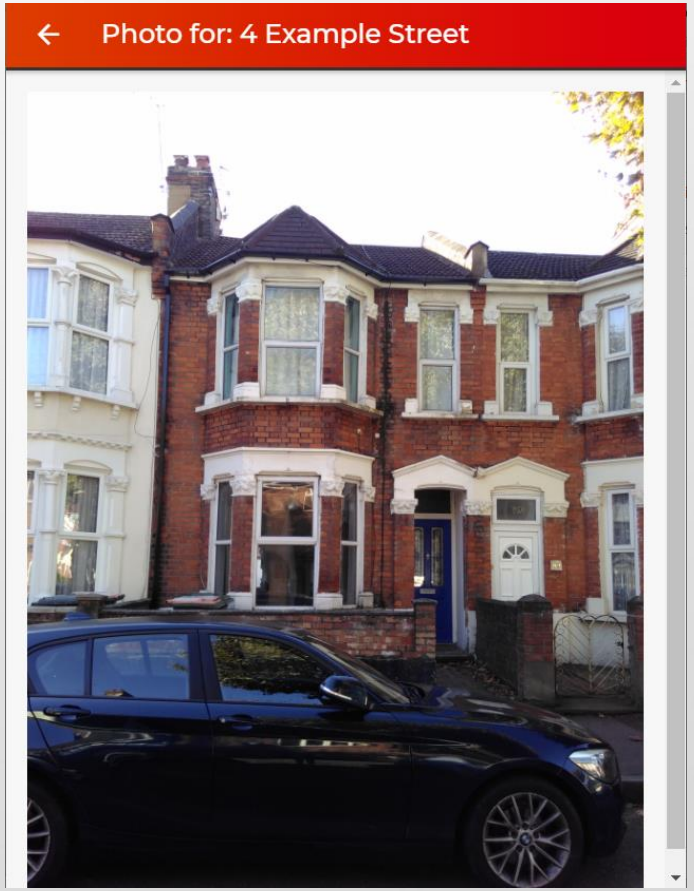


Confidential & © Q-Bot Ltd. 2018

4. Case studies

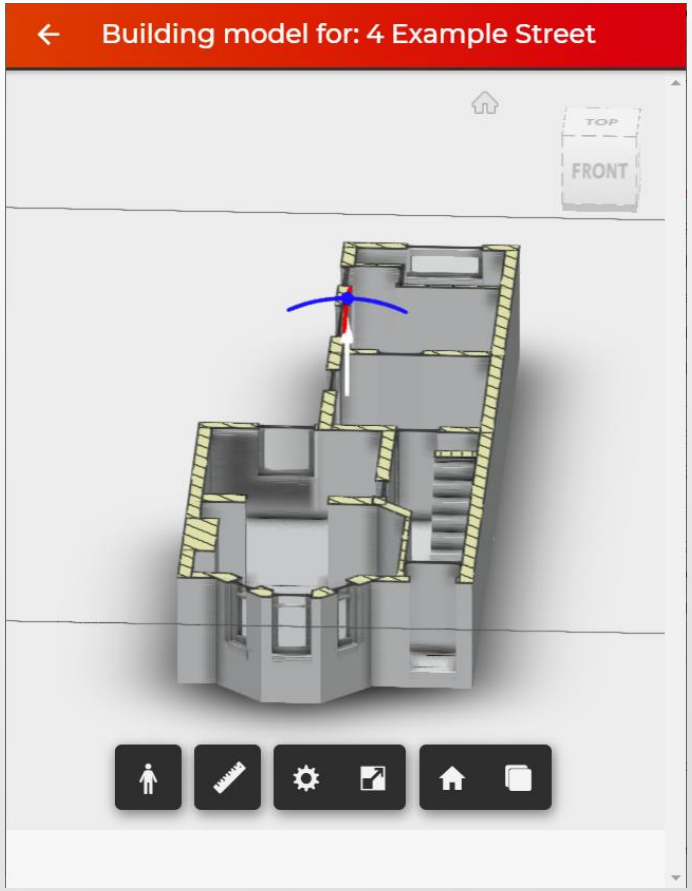


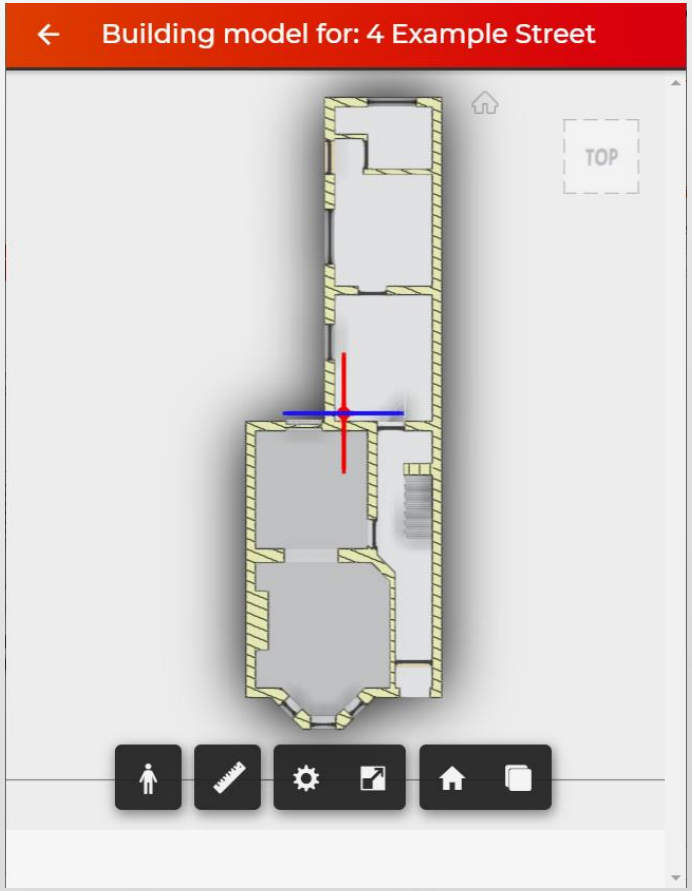




Confidential & © Q-Bot Ltd. 2018

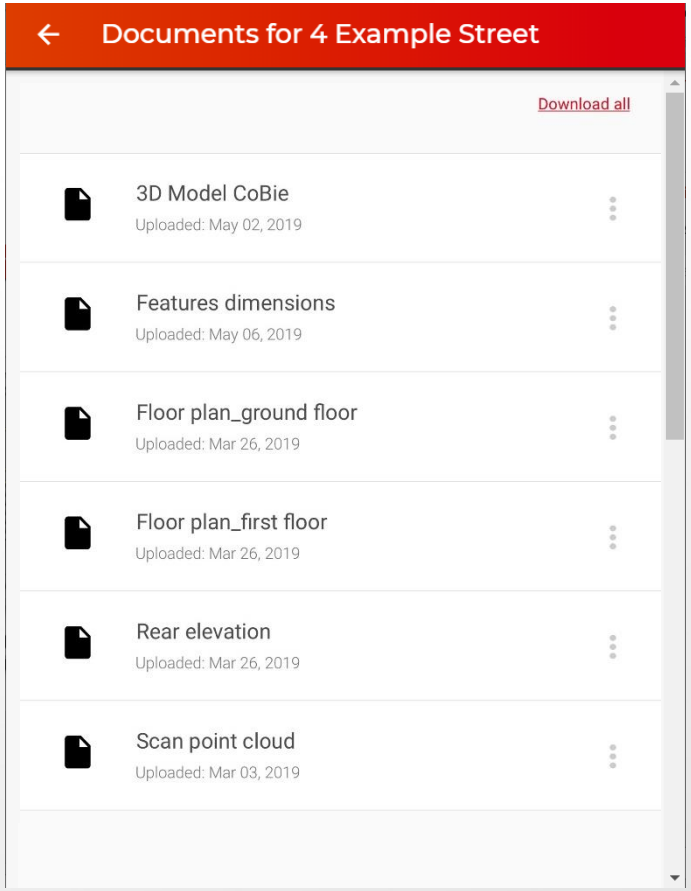
4. Case studies

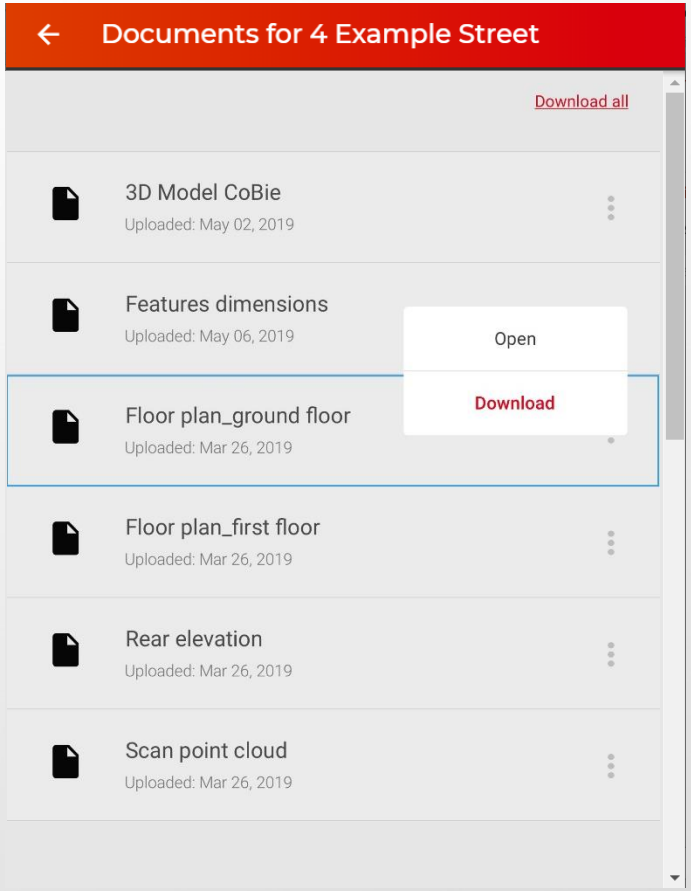


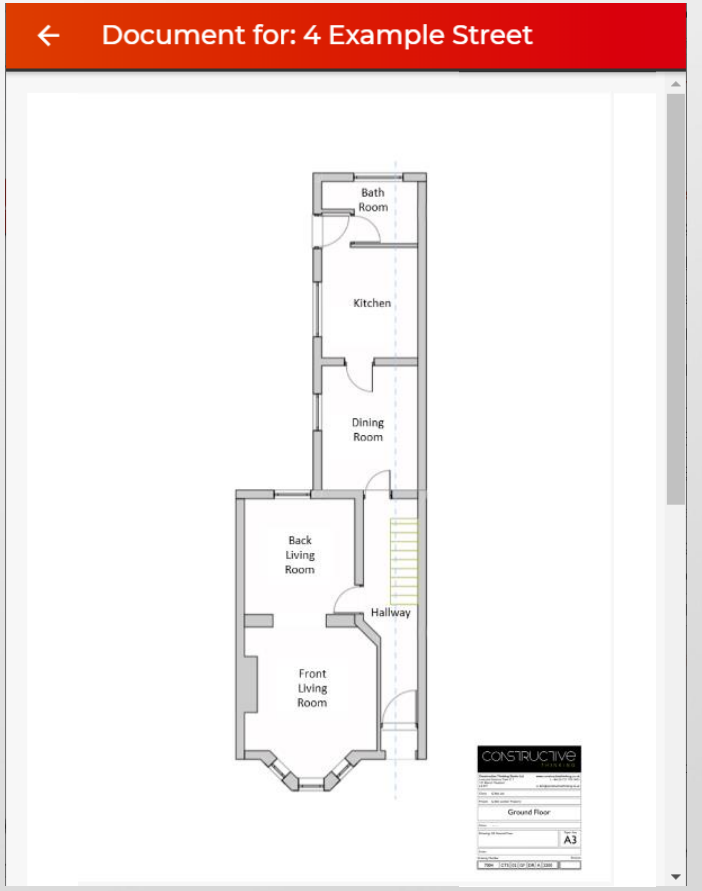


Confidential & © Q-Bot Ltd. 2018

4. Case studies

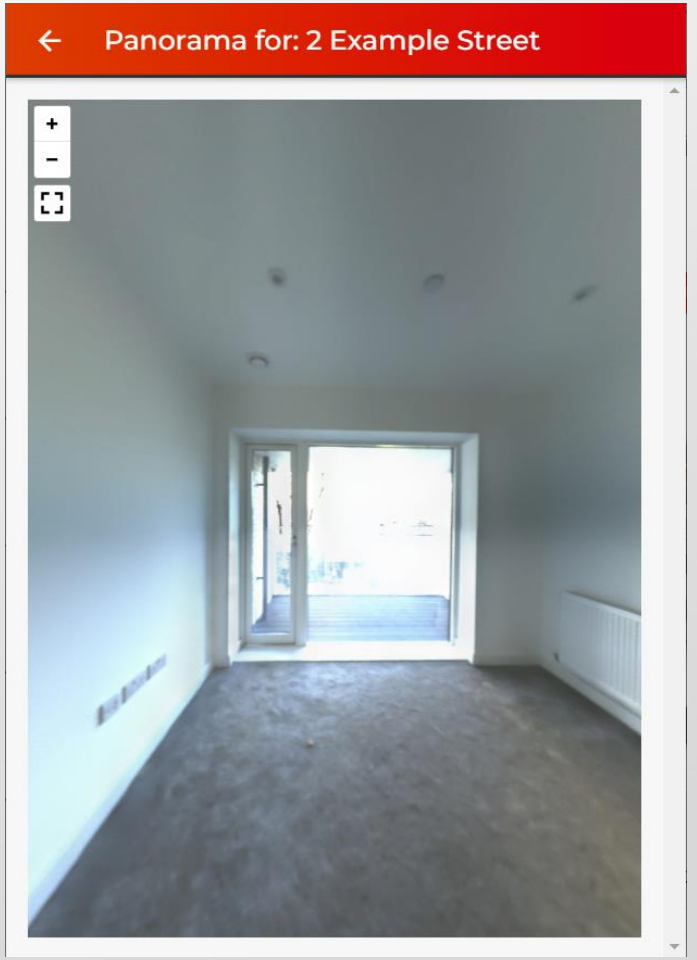






Confidential & © Q-Bot Ltd. 2018

4. Case studies



Confidential & © Q-Bot Ltd. 2018

4. Case studies

Confidential & © Q-Bot Ltd. 2018

L&Q
BECAUSE HOMES MATTER

q-bot

www.q-bot.co
info@q-bot.co
+44 (0) 208 877 2709