

Data Space | MT Data Types



Swimming & Sport

- water quality (BACTcontol)
- water temperature (Celcius)
- UV index ,
- air temperature,
- air quality



Busyness

- Picnic
- Boardwalk,
- Terraces,
- Fitness Garden,
- Total Occupancy on MT
- <https://www.mt-dashboard.nl>



Biodiversity

- Light Meter,
- Air Temperature,
- Evaporation rate,
- Moisture Level,
- pH balance, etc.

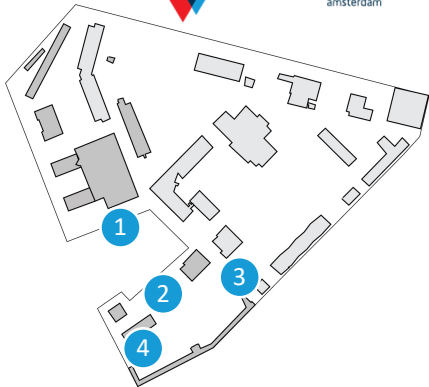


AMdEX

Data Space | MT Data Owners & Users

DATA OWNER

Intermediary



Data Collector

1. MicroLAN - Water Data
2. Public Eye - [Crowd Data](#)
3. Sensemakers - [Sound Data](#)
4. KWR - [Biodiversity Data](#)

DATA SPACE

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DATA USER

AMS-Institute (Researcher)

CODAM (Student)

Aurore Paligot (Journalist)

NewBase Virtual Marineterrein (Entrepreneur)

Ruimtelijke Ordeningplannig (Municipality)

ArtLab (Architects and Multimedia Artists)

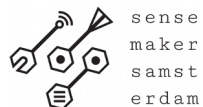
Conditions | x3 Real World Examples

DATA OWNER

DATA SPACE

DATA USER

Data Collector



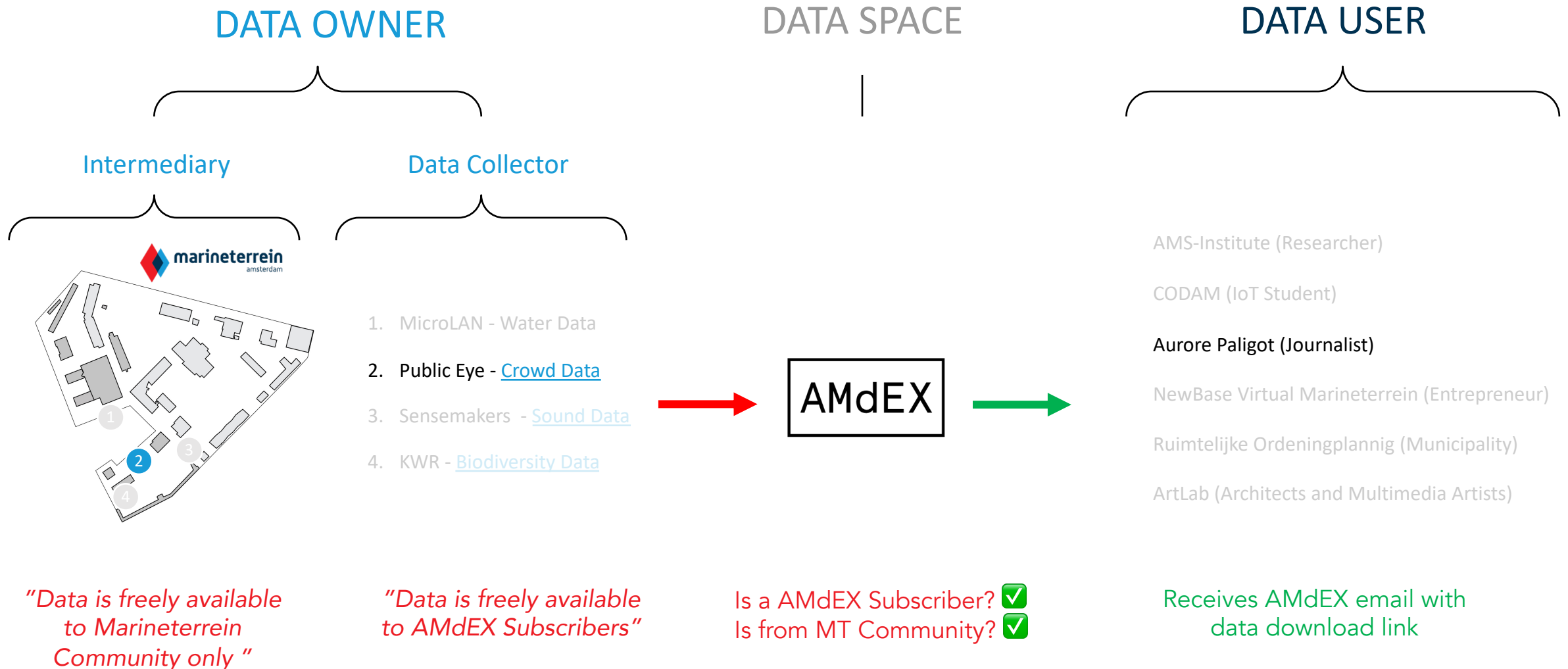
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CODAM (Student IoT)

Aurore Paligot (Journalist)

ArtLab (Architects and Multimedia Artists)

Conditions | JOURNALIST



Result | JOURNALIST

DATA OWNER

Intermediary



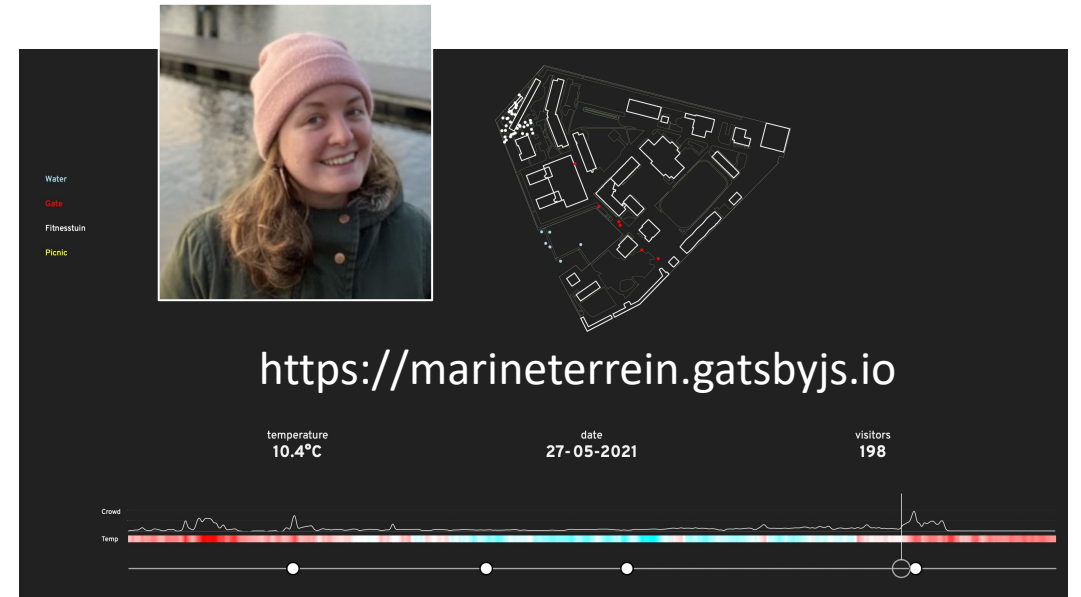
Data Collector



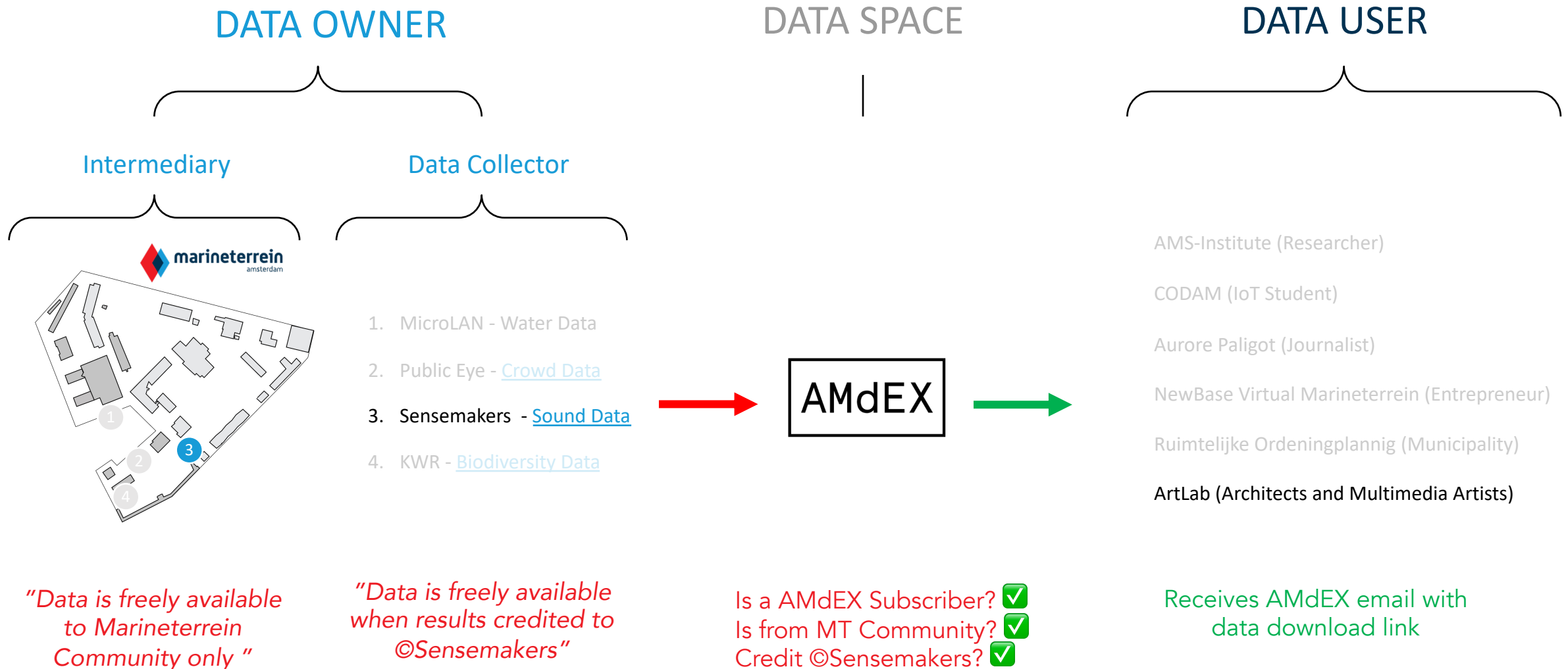
DATA SPACE

AMdEX

DATA USER



Conditions | ARTISTS



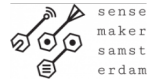
Result | ARTISTS

DATA OWNER

Intermediary

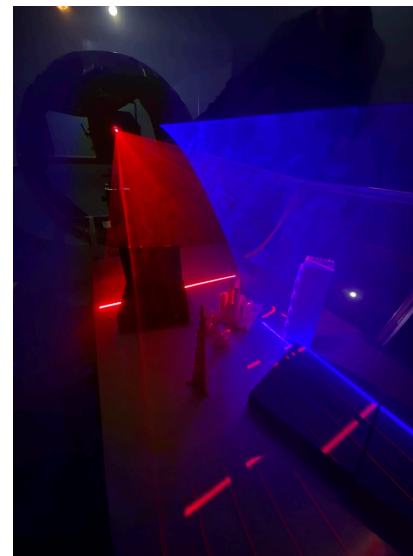


Data Collector

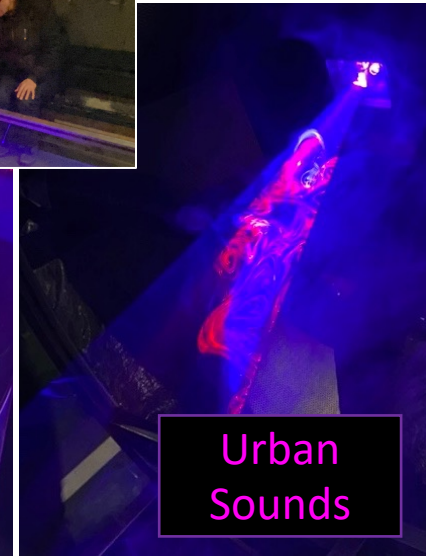
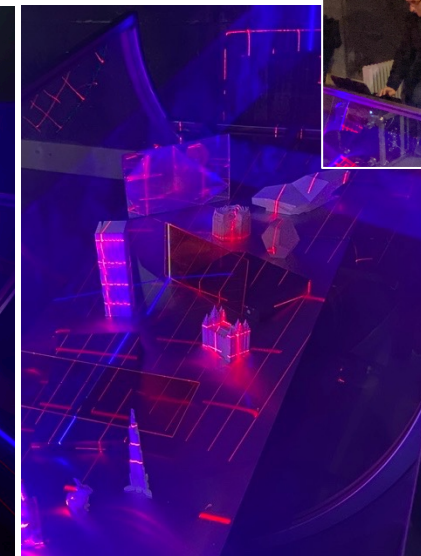


DATA SPACE

AMdEX

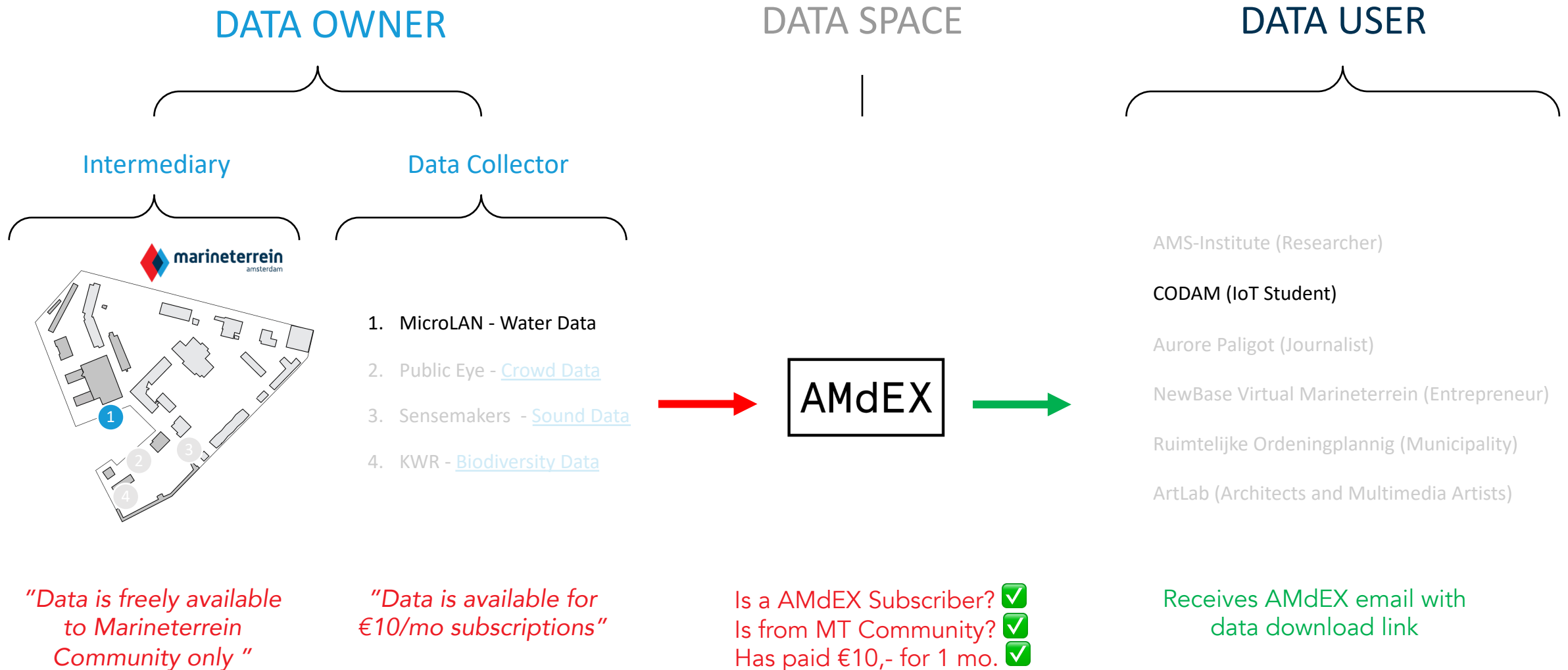


DATA USER



Urban Sounds

Conditions | STUDENT (IoT)



Result | STUDENT (IoT)

DATA OWNER

Intermediary



Data Collector

KWR



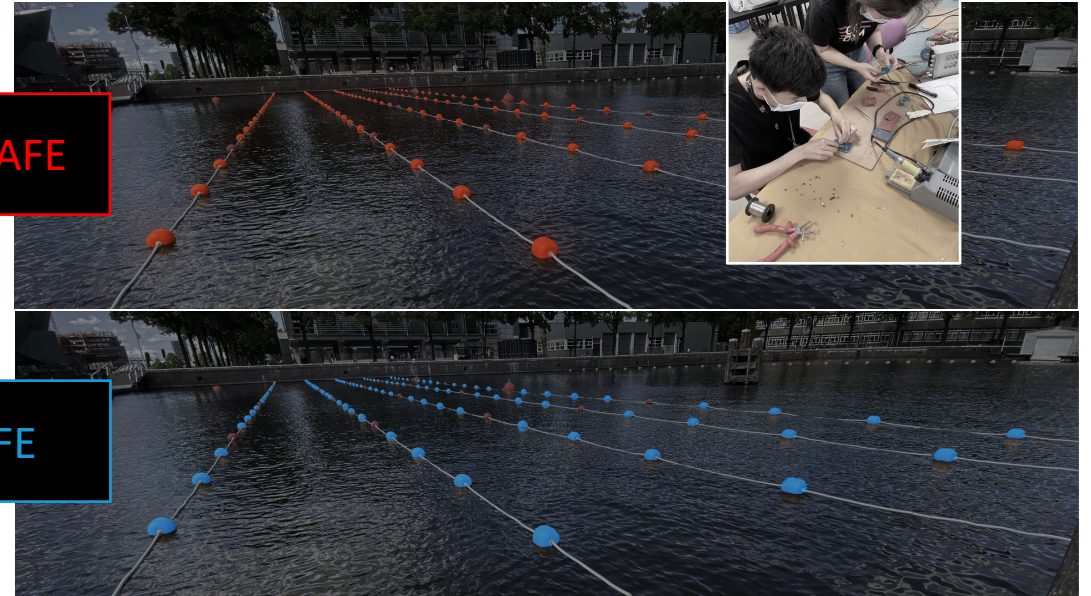
DATA SPACE

AMdEX

DATA USER

UNSAFE

SAFE



Situation: There are numerous sensors installed on the Marineterrein in Amsterdam, with a variety of owners (including the City of Amsterdam, research institutes, and others). The collected data is currently not accessible to third parties, while businesses, artists, local authorities, journalists and residents do need it. In this example, the sensor data is made available to a variety of users under varying conditions and at various levels of detail. AMdEX supports both the data owner and individual user – for example a journalist – in sharing the data securely.

In this scenario the steps of the process are as follows:

- 1 Data owner communicates which data is available under which conditions. The data is displayed in the AMdEX data catalogue and on the site data.marineterrein.nl.
- 2 User finds a dataset in the AMdEX data catalogue, using Google. User clicks on 'make a data deal to access the data'.
- 3 The AMdEX data notary checks whether the user meets the conditions for access to the data and concludes a data deal. The user and the data owner receive a copy of the data deal.
- 4 The user receives the API URL for the specific dataset at [data.marineterrein.nl] (<http://data.marineterrein.nl>).
When the user requests access, Marineterrein checks the data deal, either with the AMdEX notary or directly, and grants the user access to the API if the data deal is valid. The data is now securely shared.

Use case: Marineterrein (basic)

Access to Marineterrein sensor data using AMdEX

AMdEX

