# Werkverslag SensorThings Hackathon 2019

Just van den Broecke Just Objects B.V.

https://justobjects.nl

https://twitter.com/justb4

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### Gedaan

Inrichting Demo Server

https://github.com/justb4/stademo https://sta.map5.nl/gost/v1.0 GOST Endpoint MQTT Endpoint coupled to GOST NodeRed

- SenseMakersAms mijnomgeving upload naar GOST
- Input STA Profilering Document

## SenseMakersAms mijnomgeving upload naar GOST Steps

Test MQTT uplink:

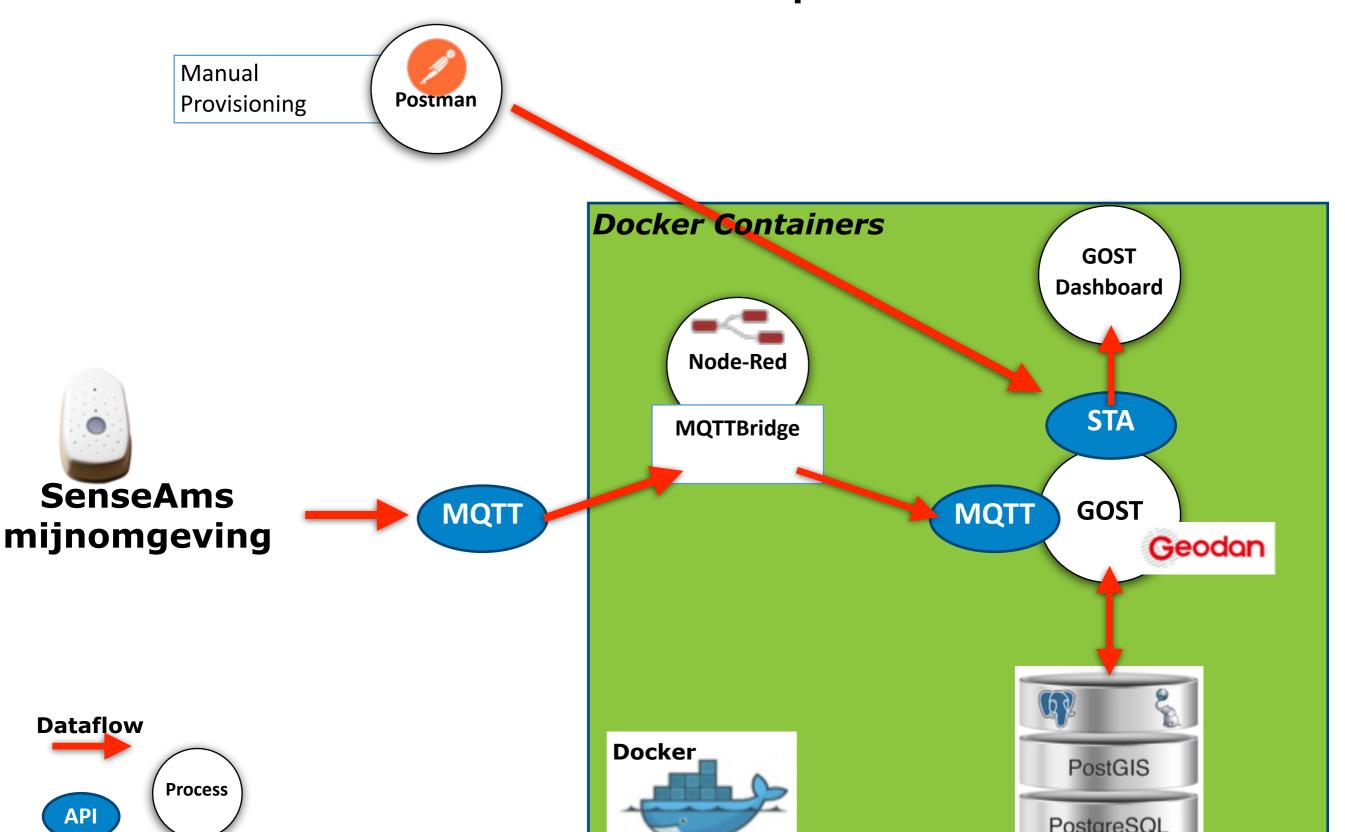
```
$ mosquitto_sub -t pipeline/# -h
mqtt.sensemakersams.org -p 9998 -u <user> -P
<pass>
```

- Postman: provision STA Entities, Examples: https://github.com/gost/workshops/tree/ master/2017 foss4g\_boston
- NodeRed: MQTT Bridge from SenseAms mijnomgeving MQTT

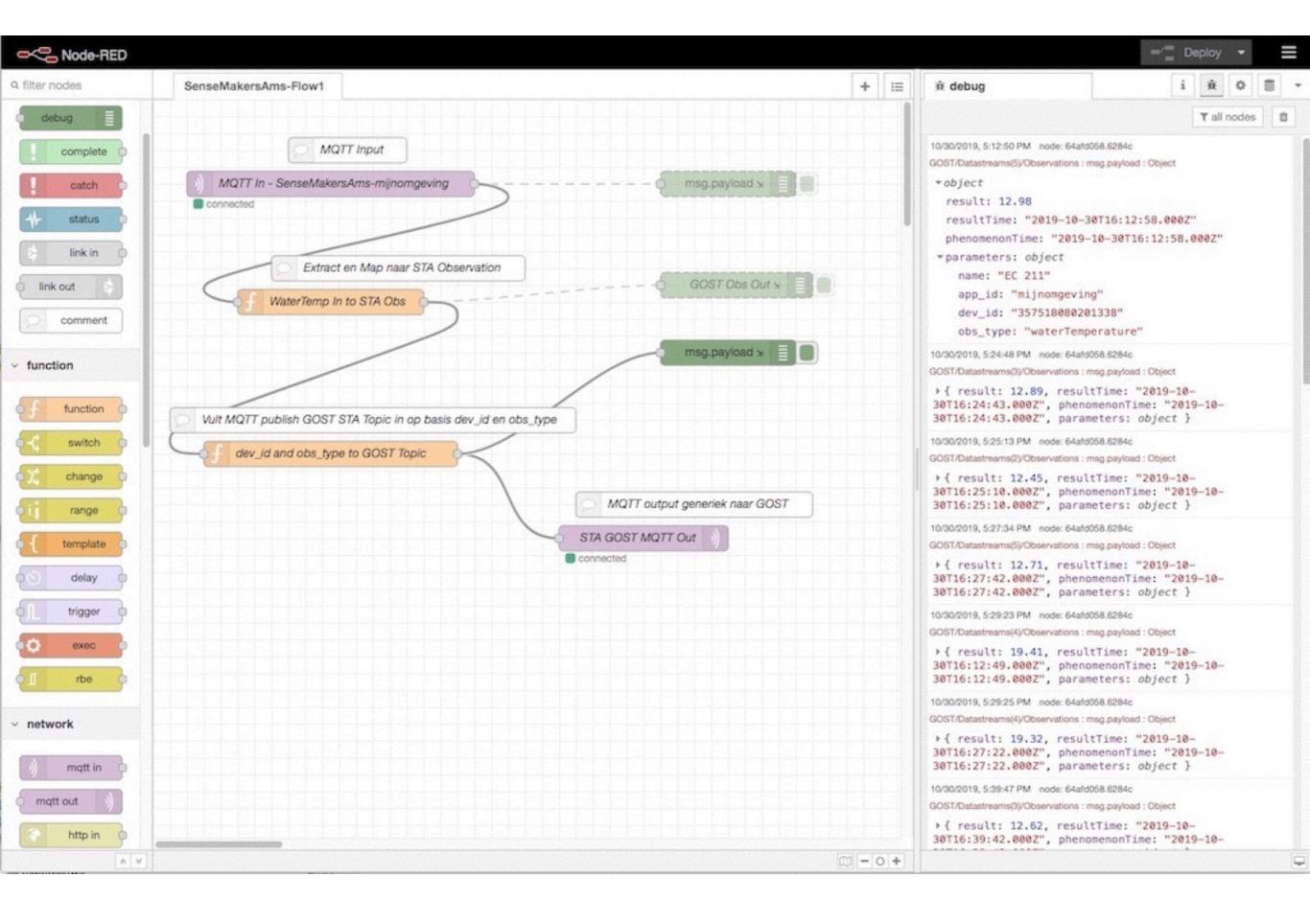
## Mapping SenseMakersAms mijnomgeving Water

STA Entity	SMA Entity	Instance
Thing	Device	dev_id=357518080168982 - EC 233
Location	Locatie Device	Lat/Lon 52.2261655, 5.1745123
Sensor	Water Conductivity	WaterEC
ObservedProperty	Water Conductivity	Ohm
Observation	Waarde + Tijd	210hm op 2019-10-30T18:09:05
Datastream		(Verbindt T, S, OP en O)
FeatureOfInterest	N.A.	N.A.

#### Demo Setup



**PostgreSQL** 



## Input STA Profilering Document

- Conventies voor gebruik Entity velden bijv properties in Thing, parameters in Observation
- Metadata Conventies
- Conventies op Definities (Sensor, ObservedProp)
- Cascadering en Harvesting meerdere projecten/initiatieven bundelen via STA
- Archivering
- Conformance statement via STA API /conformance
- Profilering op Filters