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GeoService Inclusion of a microservice

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Content

- Modularity
 - Three types
 - Practicing what we preach: the ESSnet
 - Importance
- MOTUS & Geoservice
 - Front-office
 - Back-office
 - Architecture
- Future interests





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Three instances of modularity



- Subject modularity
- Process modularity
- Methodological modularity



Research design of the pilot in the ESSnet

[]	STEP/ELEMENT	TIMING	CONTENT
0	Initializing communication recruitment	W-2	Invitations, recruitment, logins, briefing
1	Mobility survey	W-1	Mobility
2	Usability survey	W-1	Specific usability issues survey
3	Diary	W-0	Main diary – reference day – activity related questionnaire
4	Notifications	W-0	Parallel to main diary – 11AM – 3PM reference day
5	Geofence	W-0	Parallel to main diary – questionnaire
6	UX survey	W-0	Overall user experience survey



Importance of modularity

Importance

- Flatten the learning curve to get people on board
- Once size fits all approach





MOTUS & GeoService

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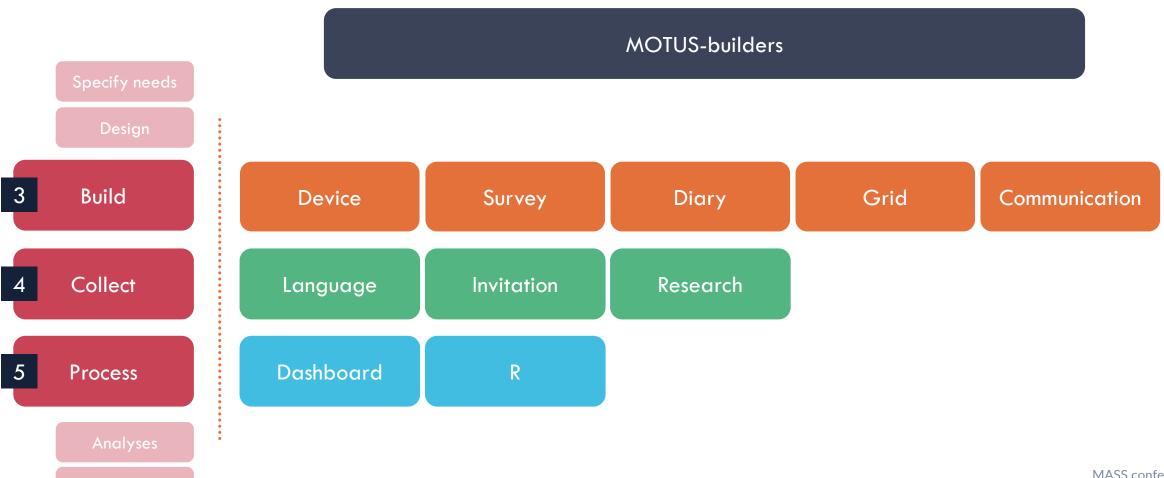
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MOTUS mapped on GSBPM levels

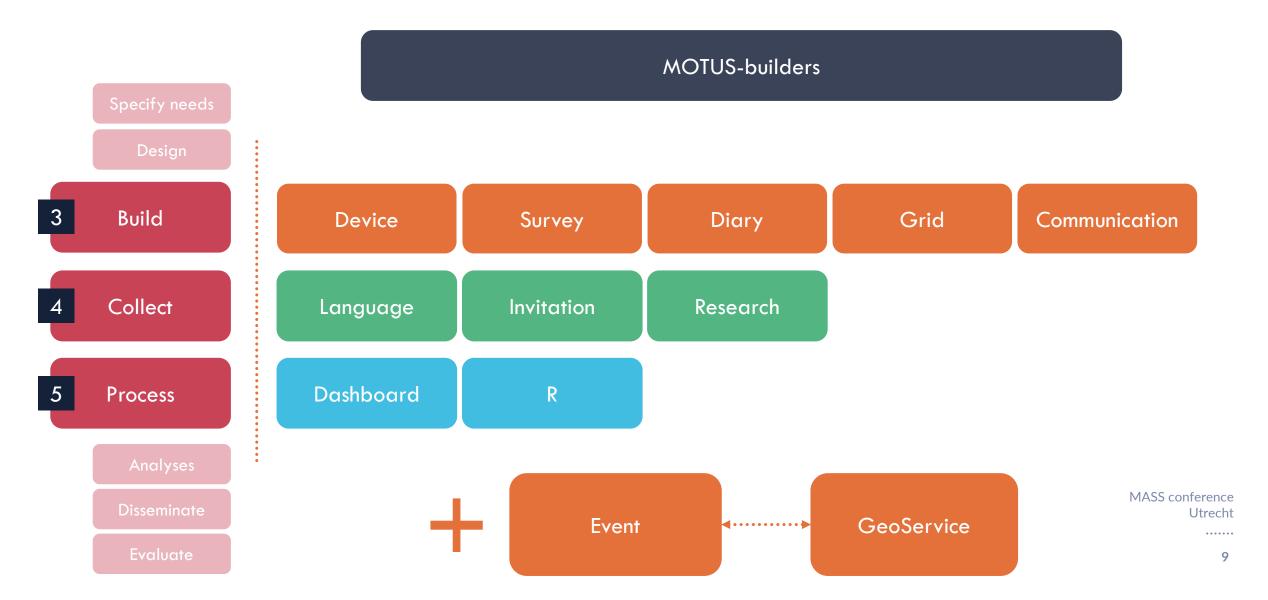






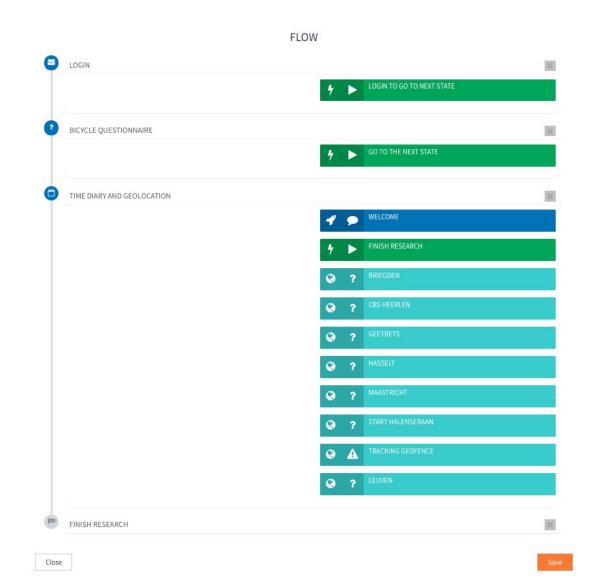


MOTUS mapped on GSBPM levels





Event builder to research flow

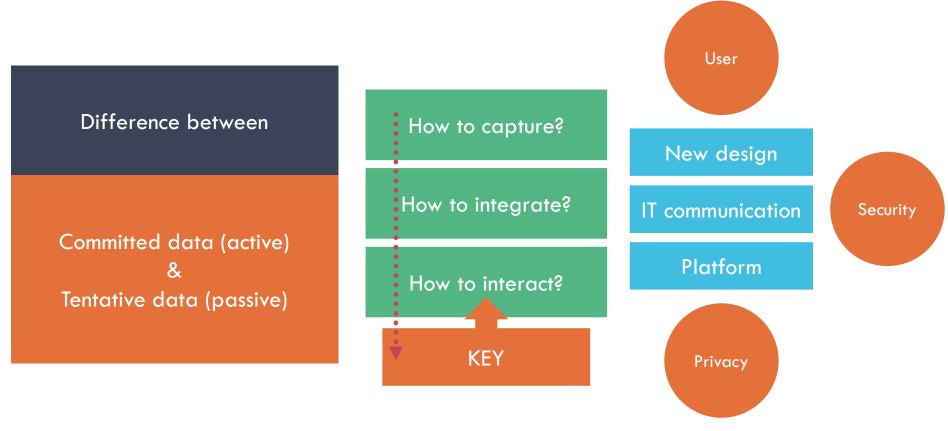








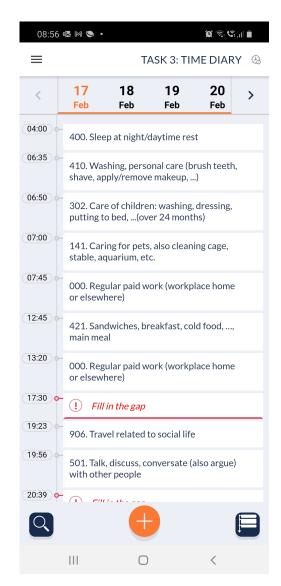
The concept of Tentative data



Presentation GeoService

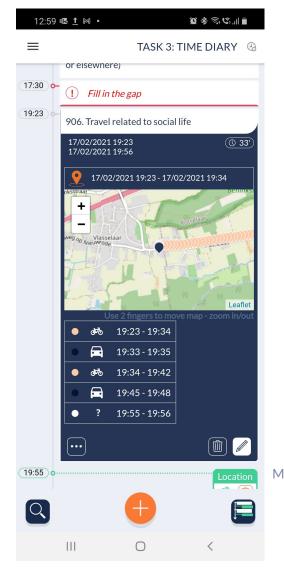


Tentative data to Committed data



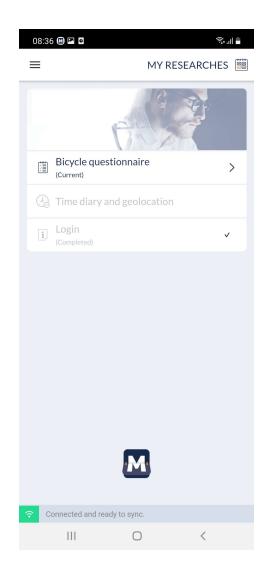


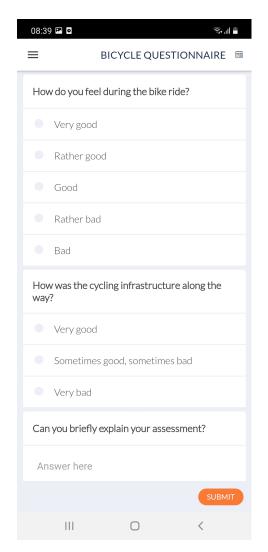


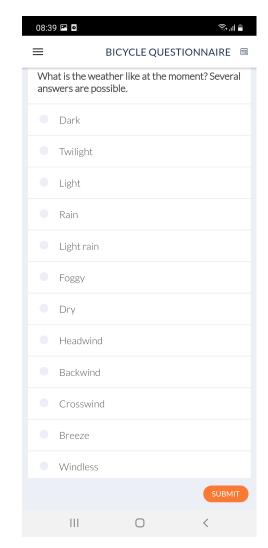




Into the action questionnaire





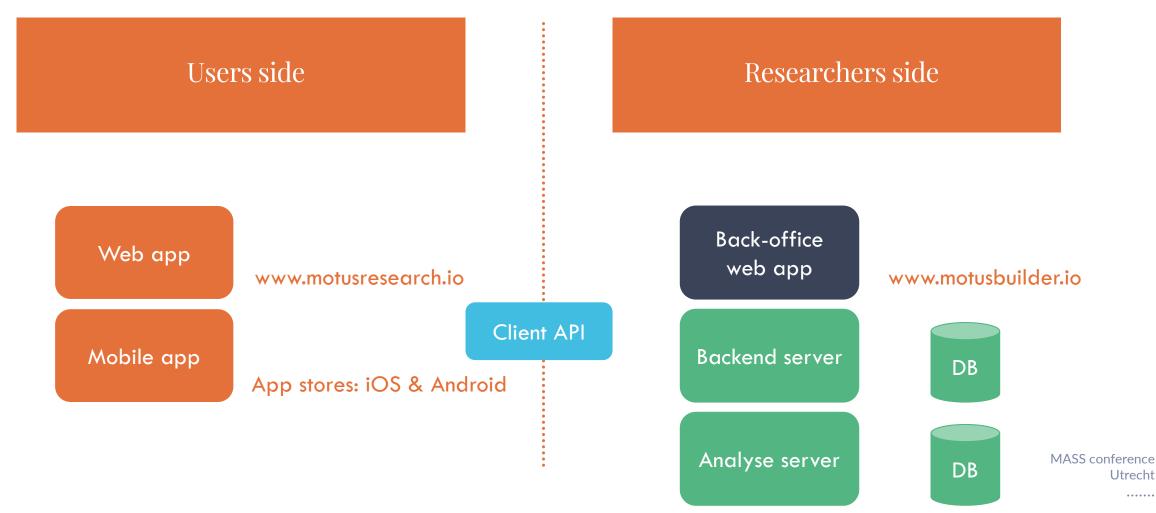








MOTUS platform architecture: 6 components



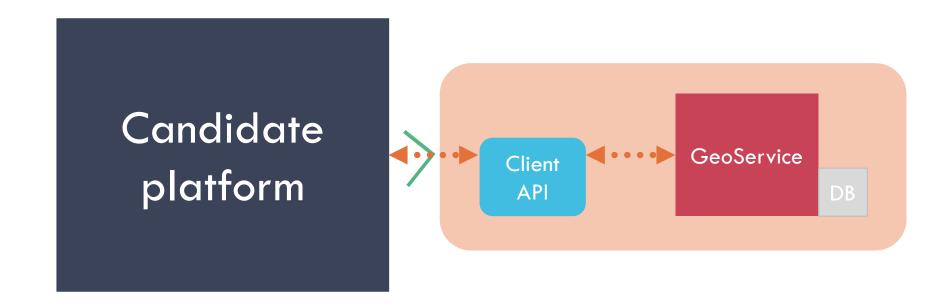






GeoService relations





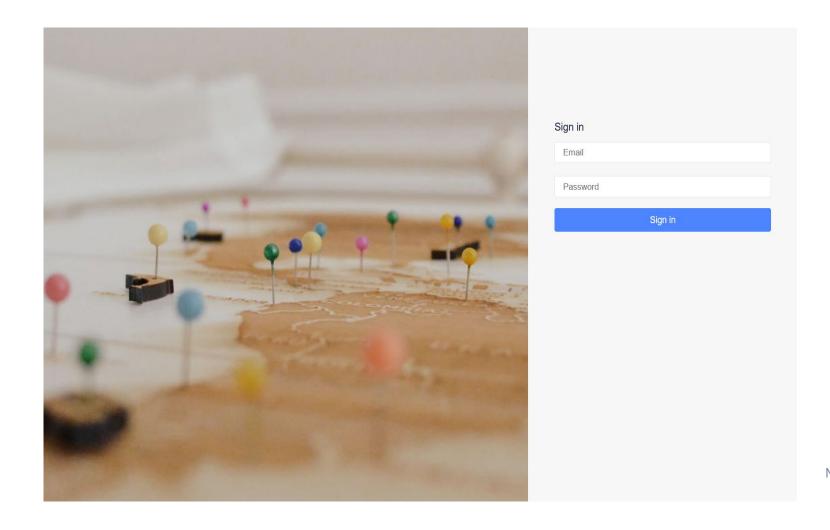
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GeoService back-office





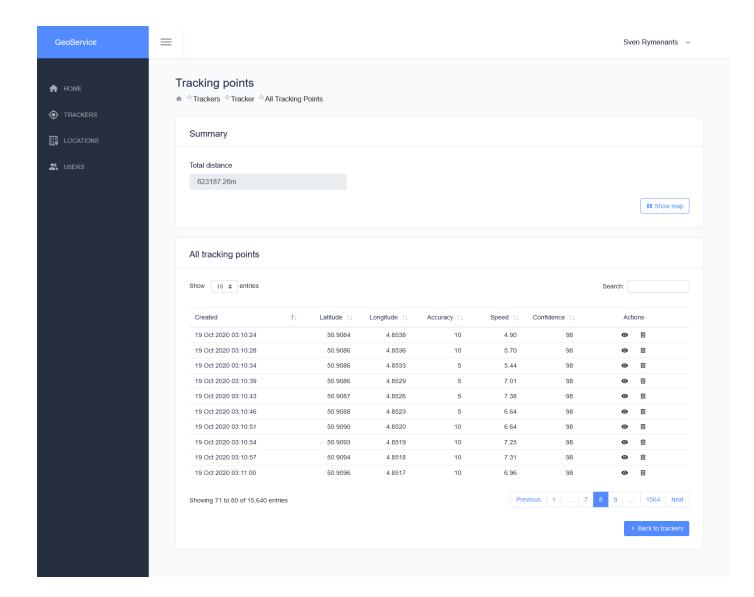
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Dashboard database

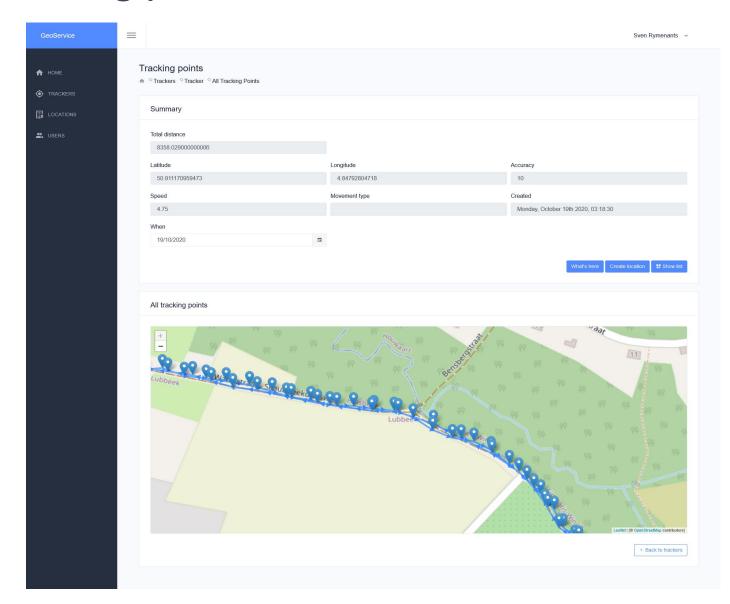






Information on tracking points

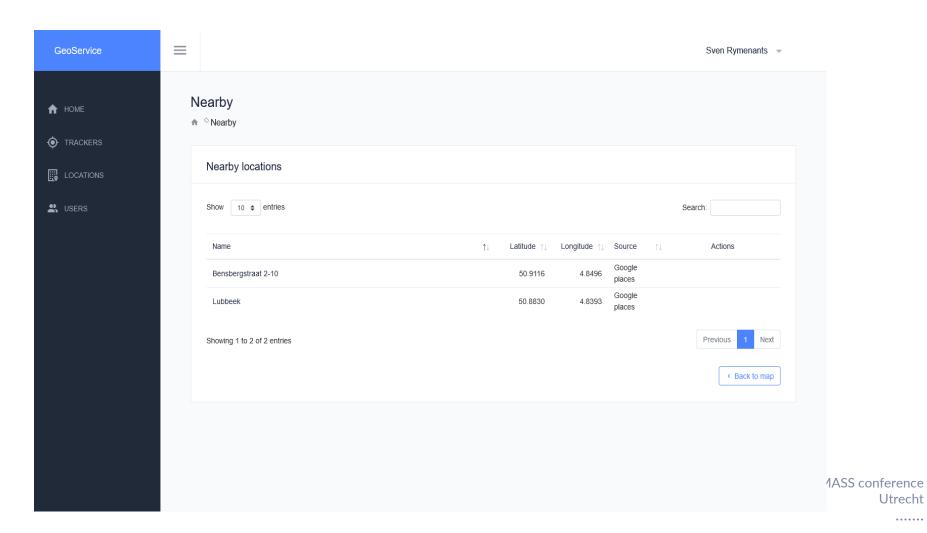






Nearby locations





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Quick summary



- Mobile app: geotracking
- Microservice
 - Store geotracking points (raw, unprocessed data)
 - Process geotracking points
 - Cluster => circle with centre on map
 - Nearby (Google Places, OpenStreetMap, respondent's locations)
 - Classify nearby places e.g. restaurant
- Backend
 - Map classification to research activities e.g. restaurant ->
 eating



Future interests

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