

CitiSense

From Knowledge To Action



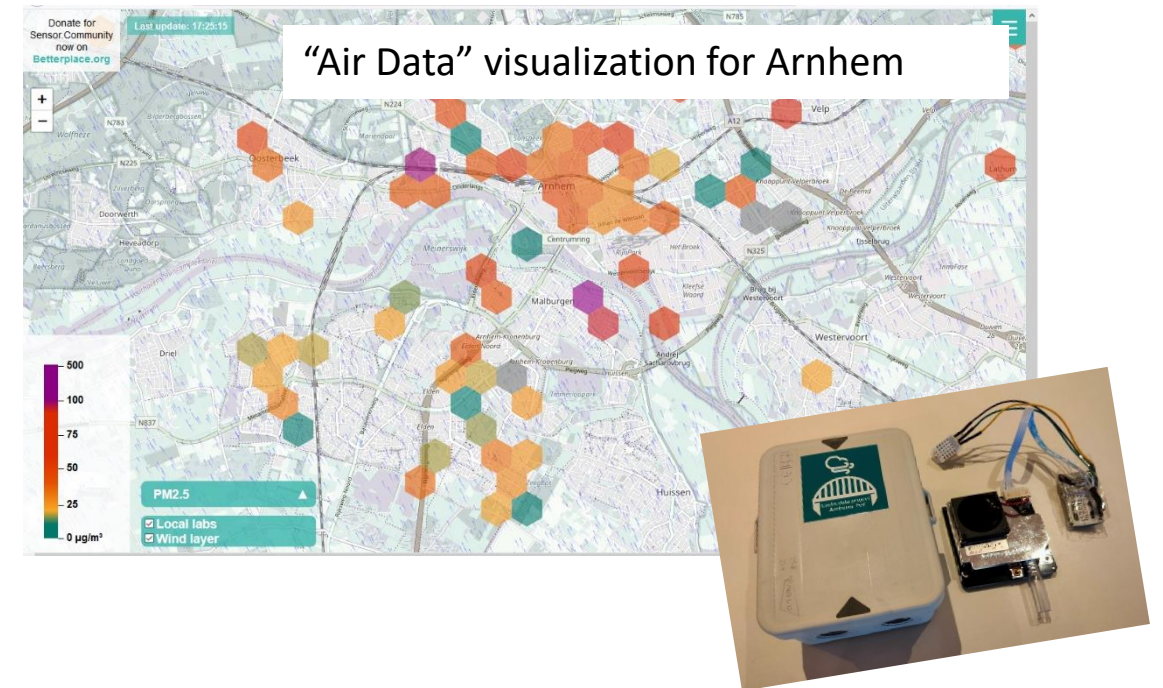
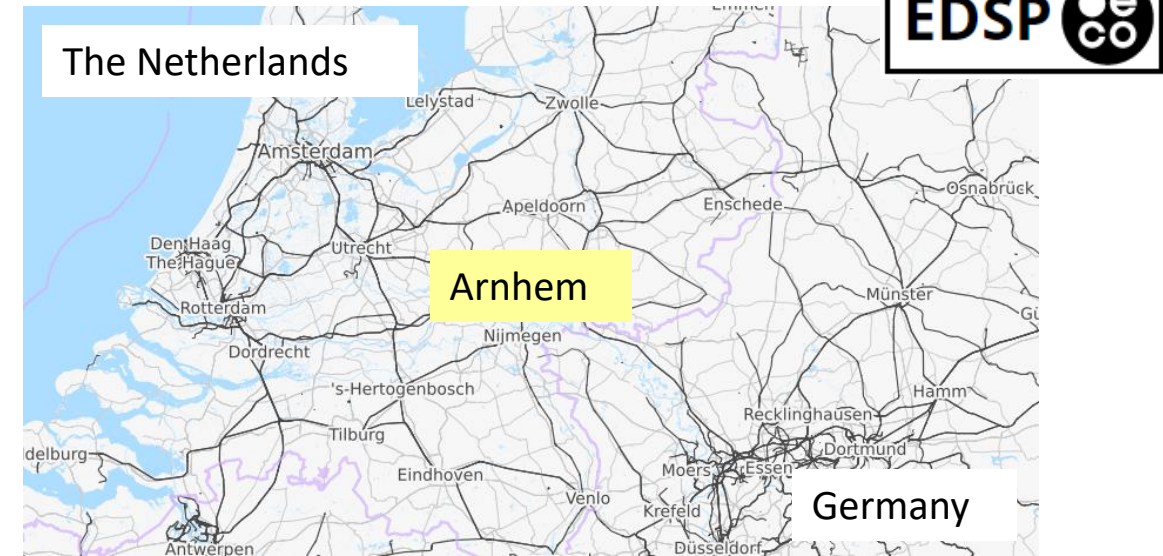
Alexander Los, Elena Ensenado, Jeroen Spaander

IHS, Erasmus University Rotterdam

EDSP, Arnhem

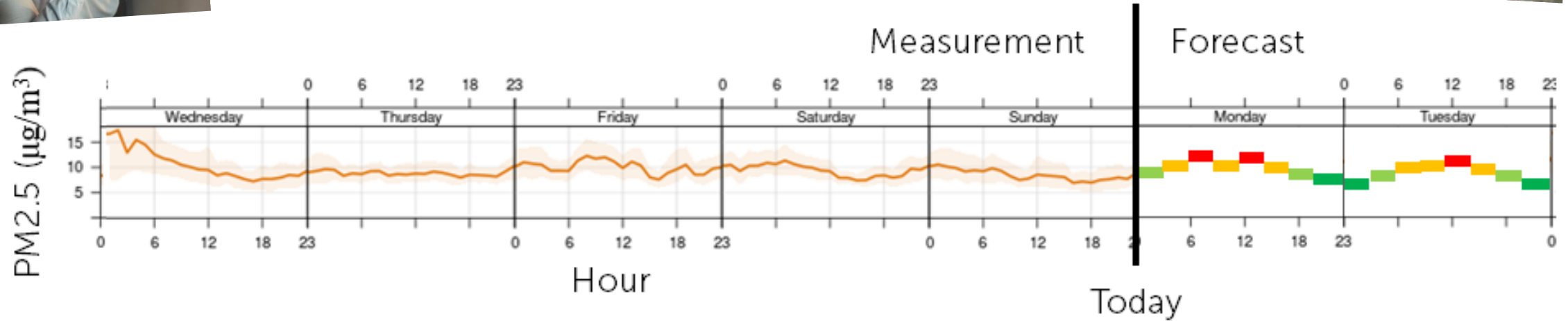
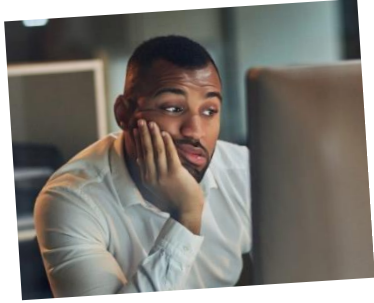
Citizen Science Community “Arnhems Peil”

Characteristics	Arnhems Peil
Active Participants	> 200
Volunteers	17
Installed Sensors	130 (+50)
Data Platform	Air Data -> EDM



Air Pollution Data and Forecast

Forecast: more actionable

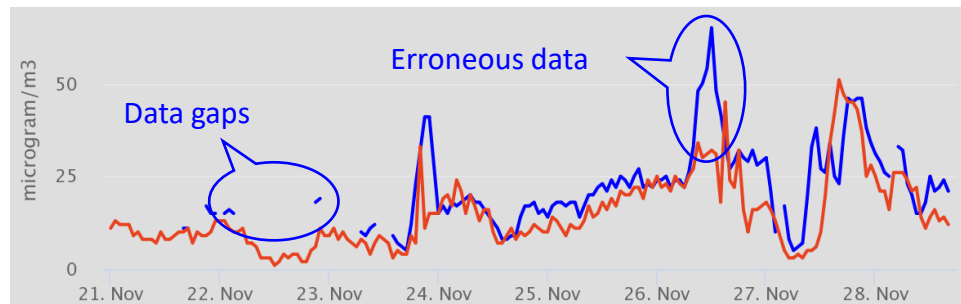
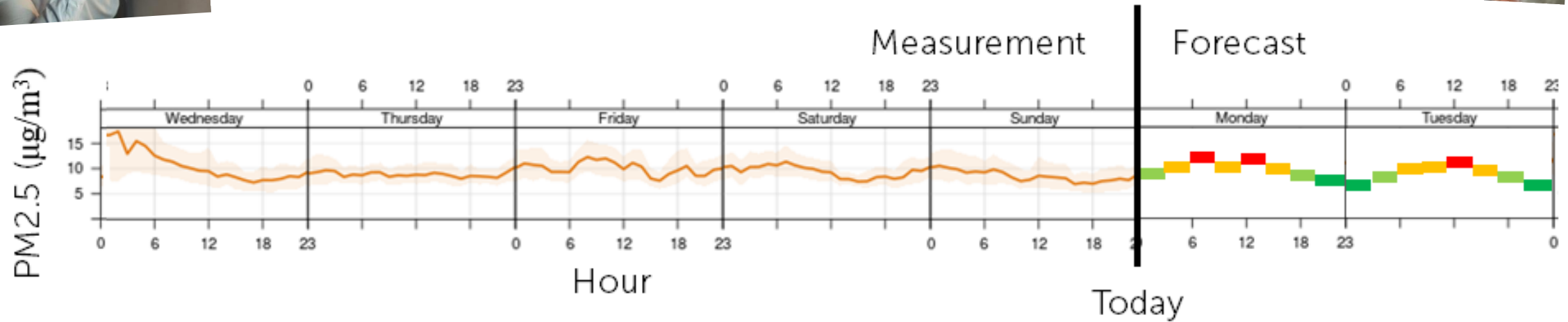
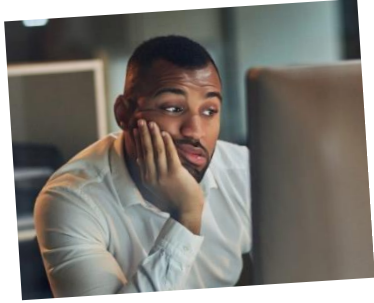


Air Pollution Data and Forecast

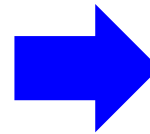
Forecast: more actionable

Improve data quality \leftrightarrow awareness creation

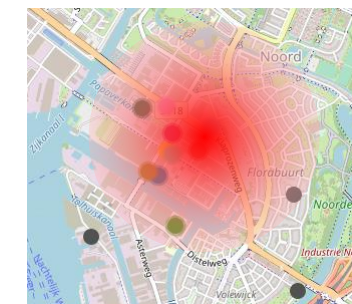
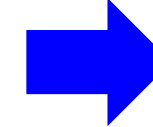
Hot Spot detection \leftrightarrow Field Lab exp.



Time Series of Air Pollution Data (Reference)



Sensor Clusters



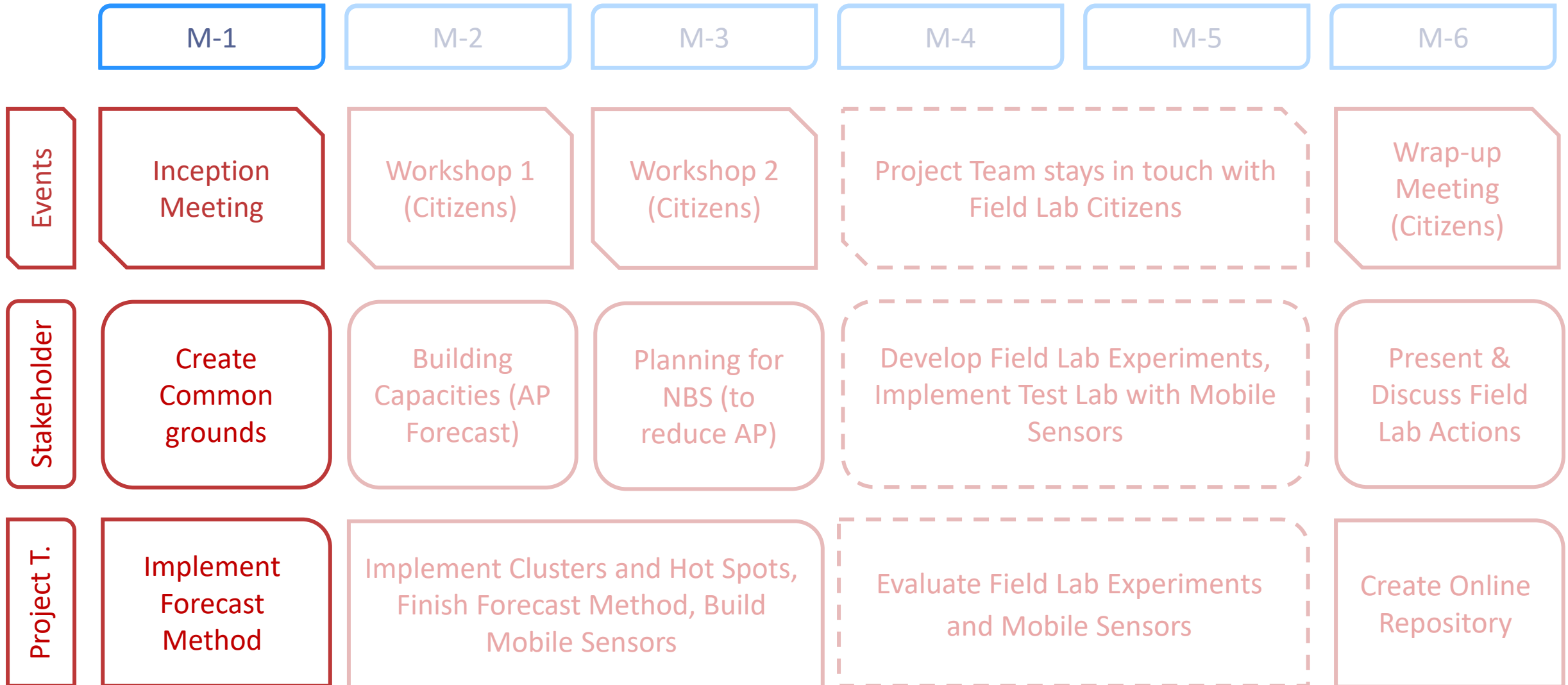
A.P. Hot Spots

NBS to Address Air Pollution

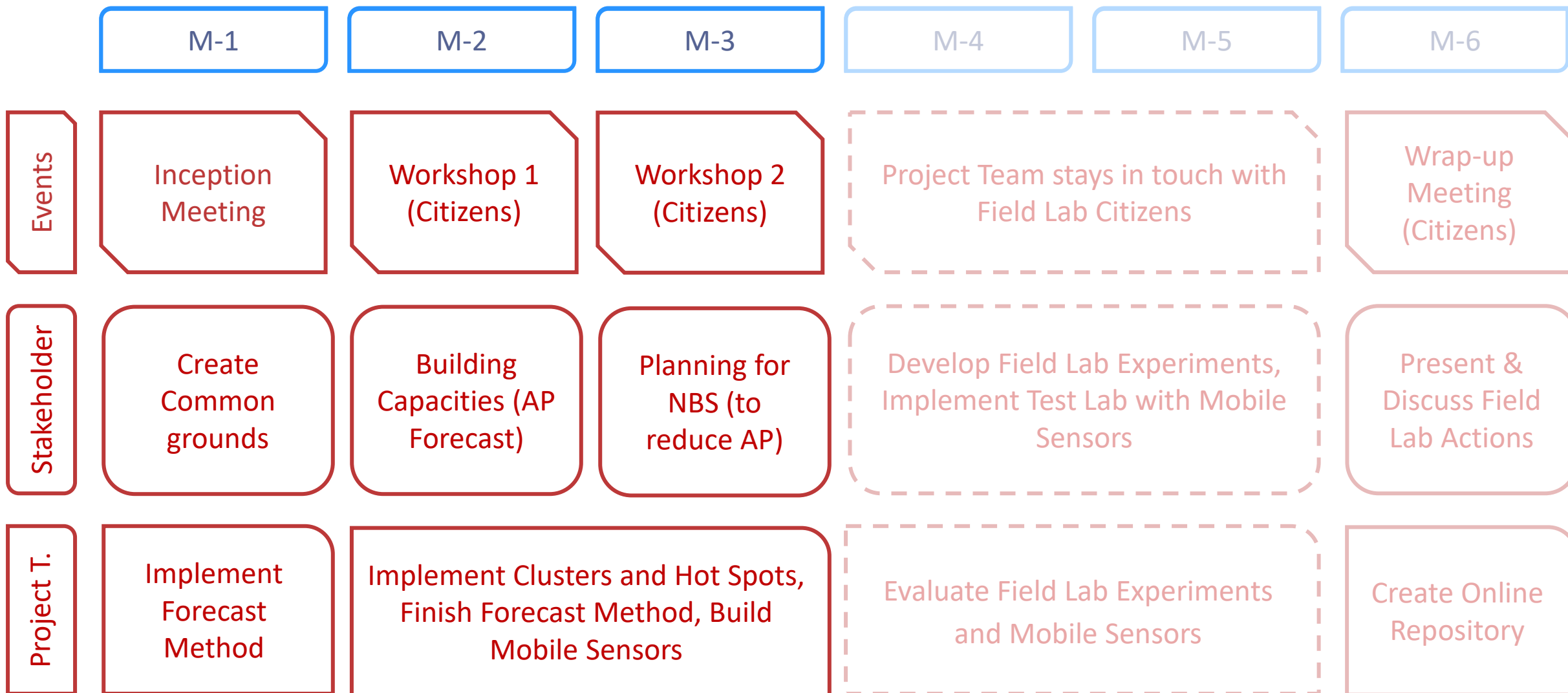
- Ideas for future solutions (using hot-spot information)
- NBS are “*solutions that are inspired and supported by nature, which are cost-effective, simultaneously provide environmental, social and economic benefits and help build resilience.*”



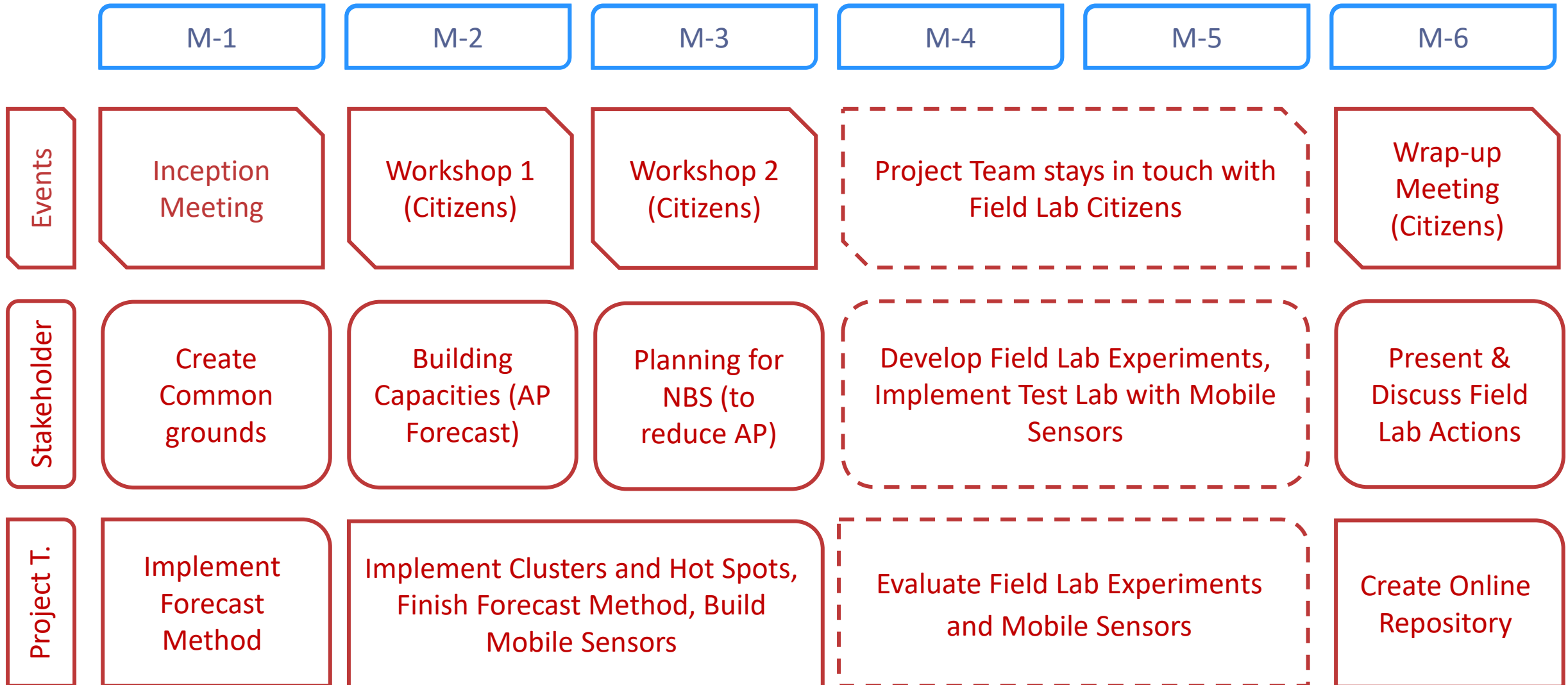
Timeline



Timeline



Timeline



Thank you

Data Providers:



