

Data Science Fellowship Launch Event 2022

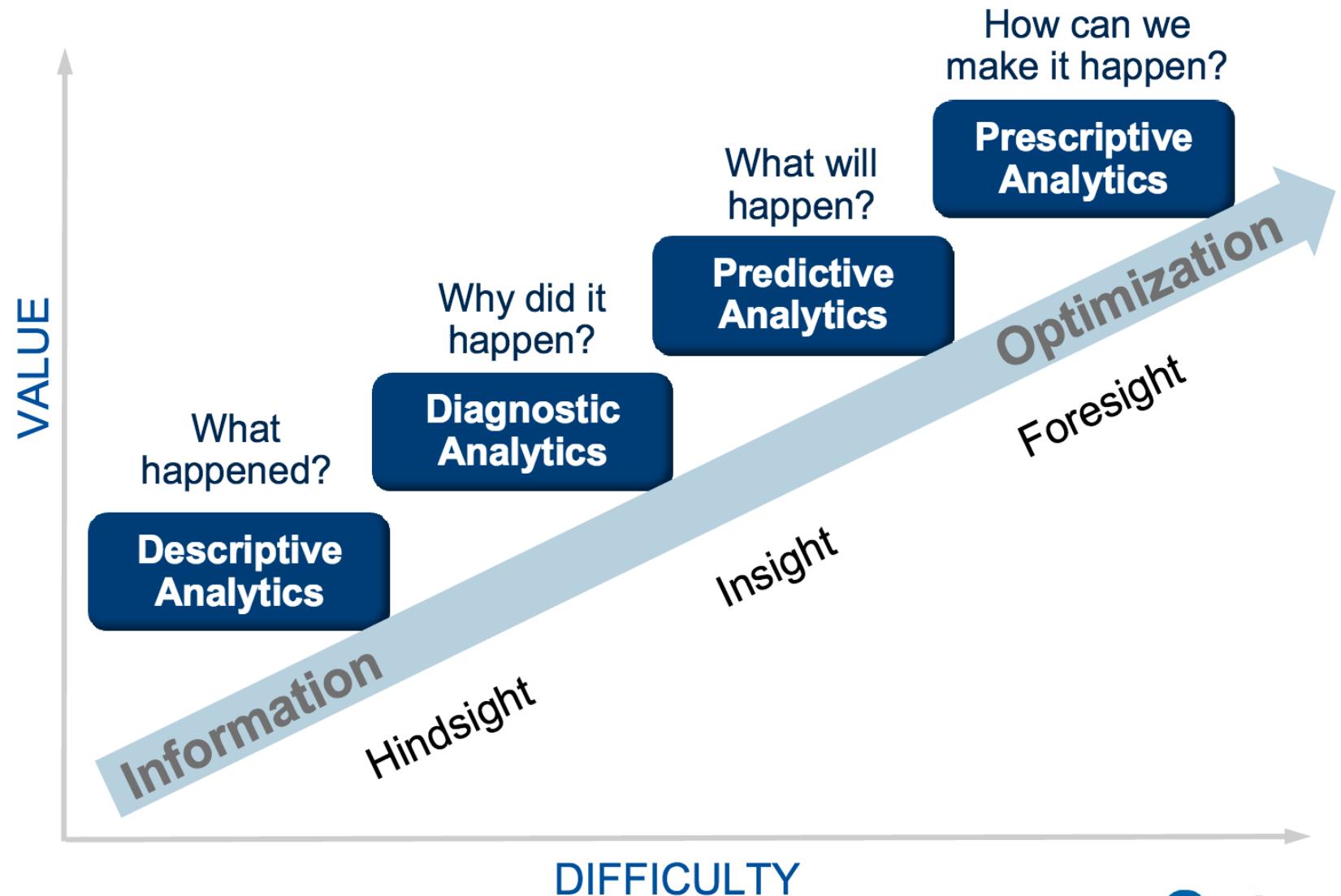
Optimization for a Better World



Dick den Hertog



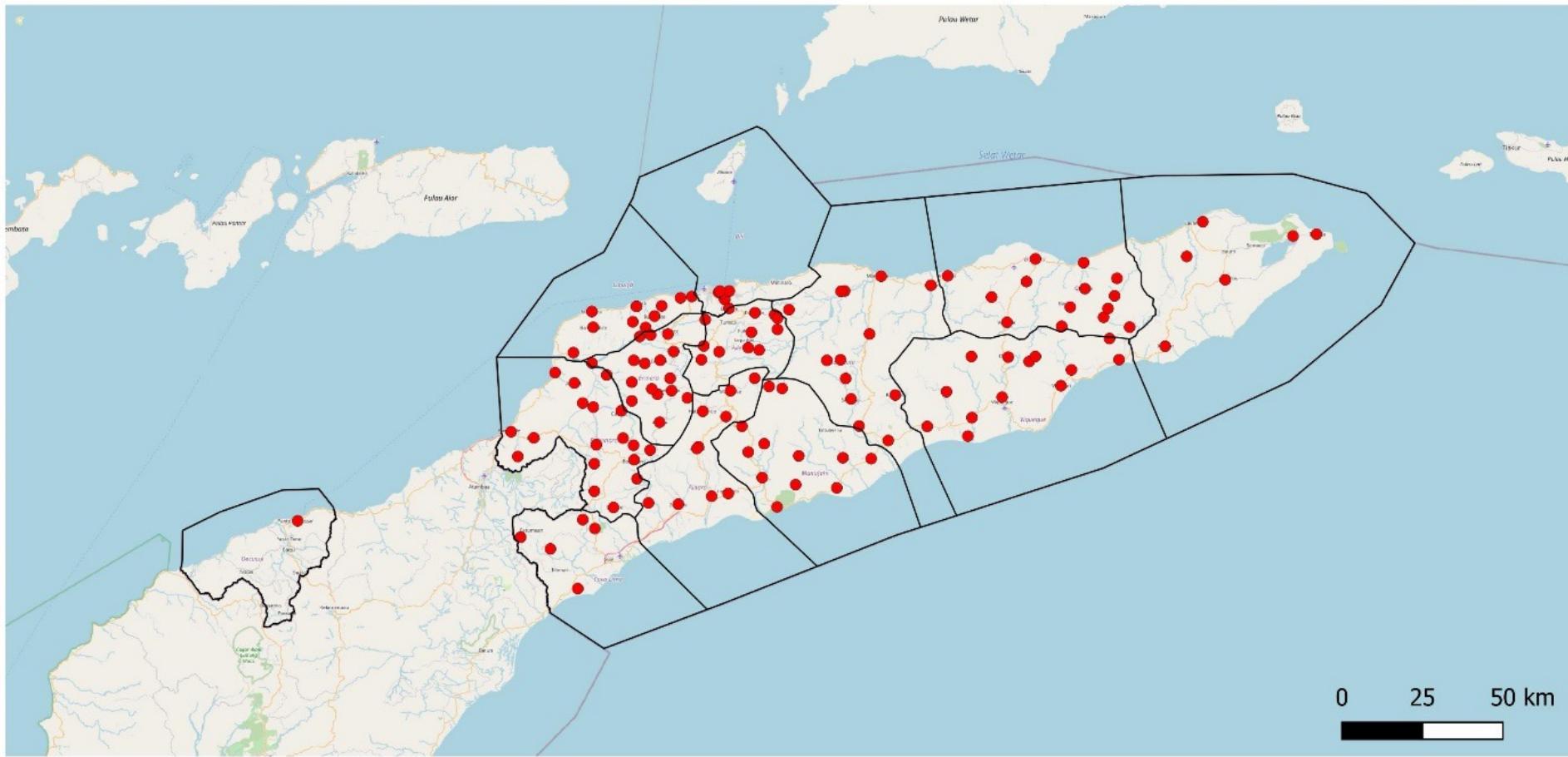
Four parts of analytics



Optimizing hospital location in Timor-Leste



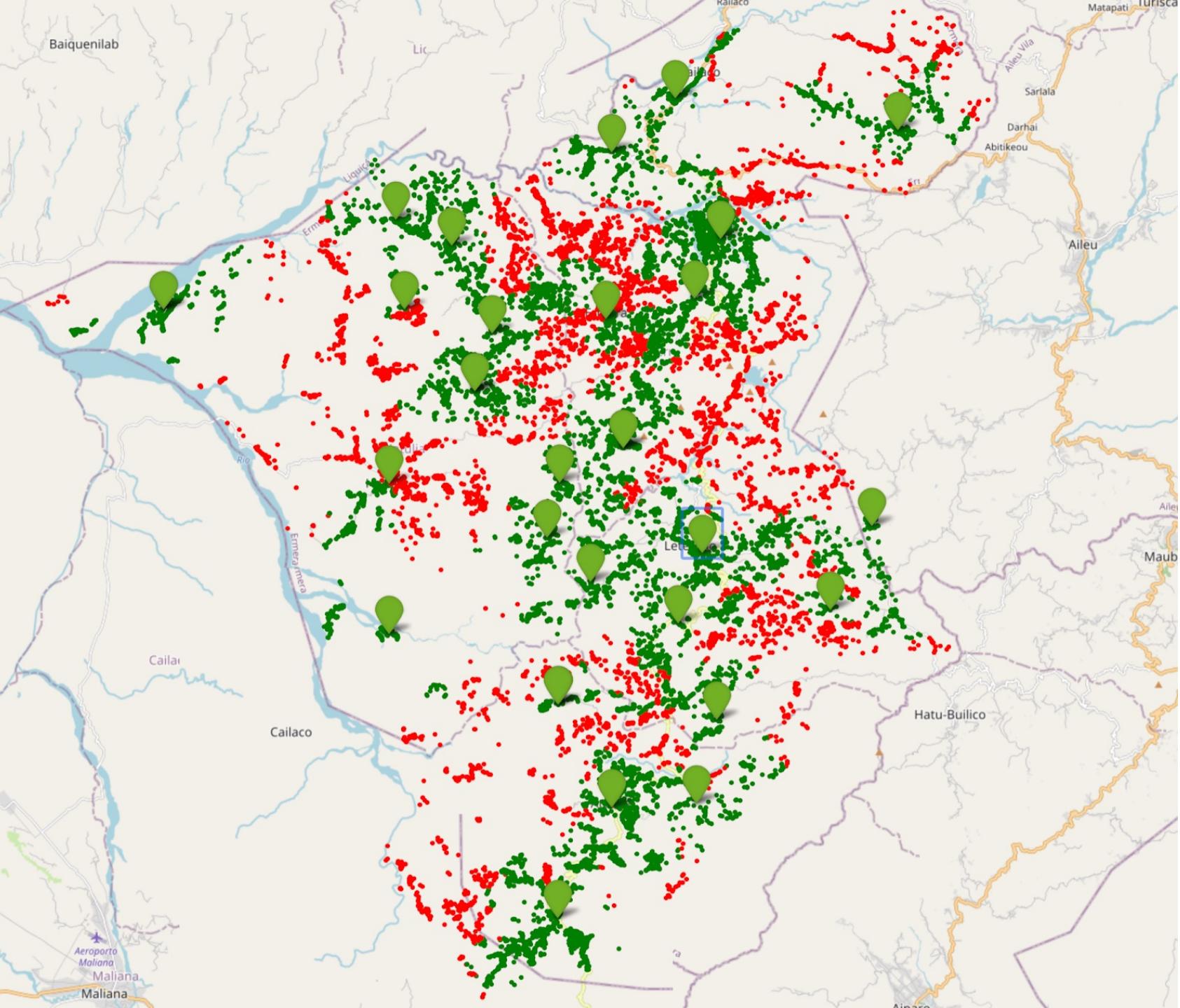
Objective



Find new hospital locations to maximize the number of people
that can reach a facility within 5 kilometers travel distance.

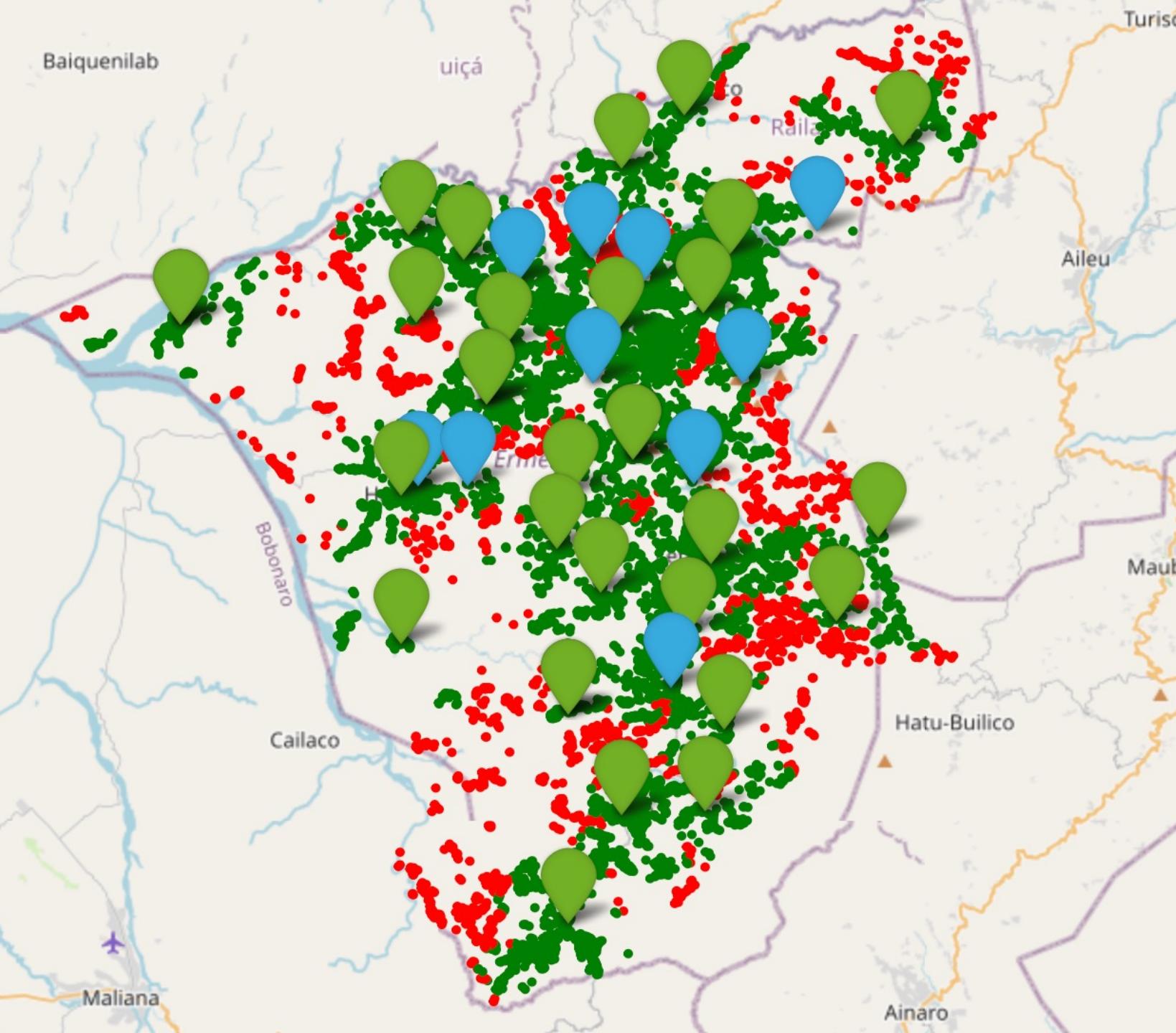
Example District Ermera

63% of households
within 5 km distance
from a health facility

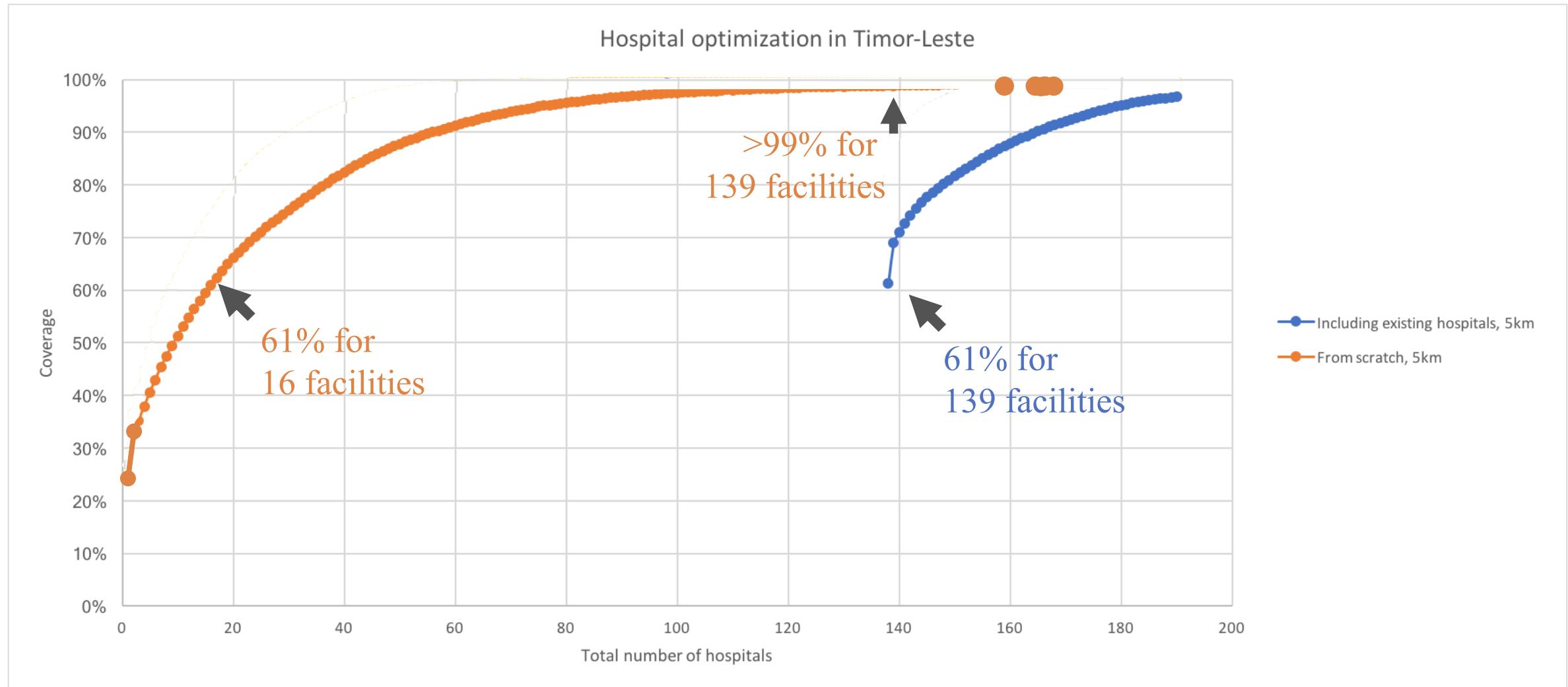


Example District Ermera

5 km accessibility rise:
from 63% to 81%
by placing 10 facilities



Optimal coverage as function of number of healthcare facilities



Capacity Stroke Centers Vietnam



Nepal

Covid Test Centers



Armenia





Optimizing feed for cattle for small farmers

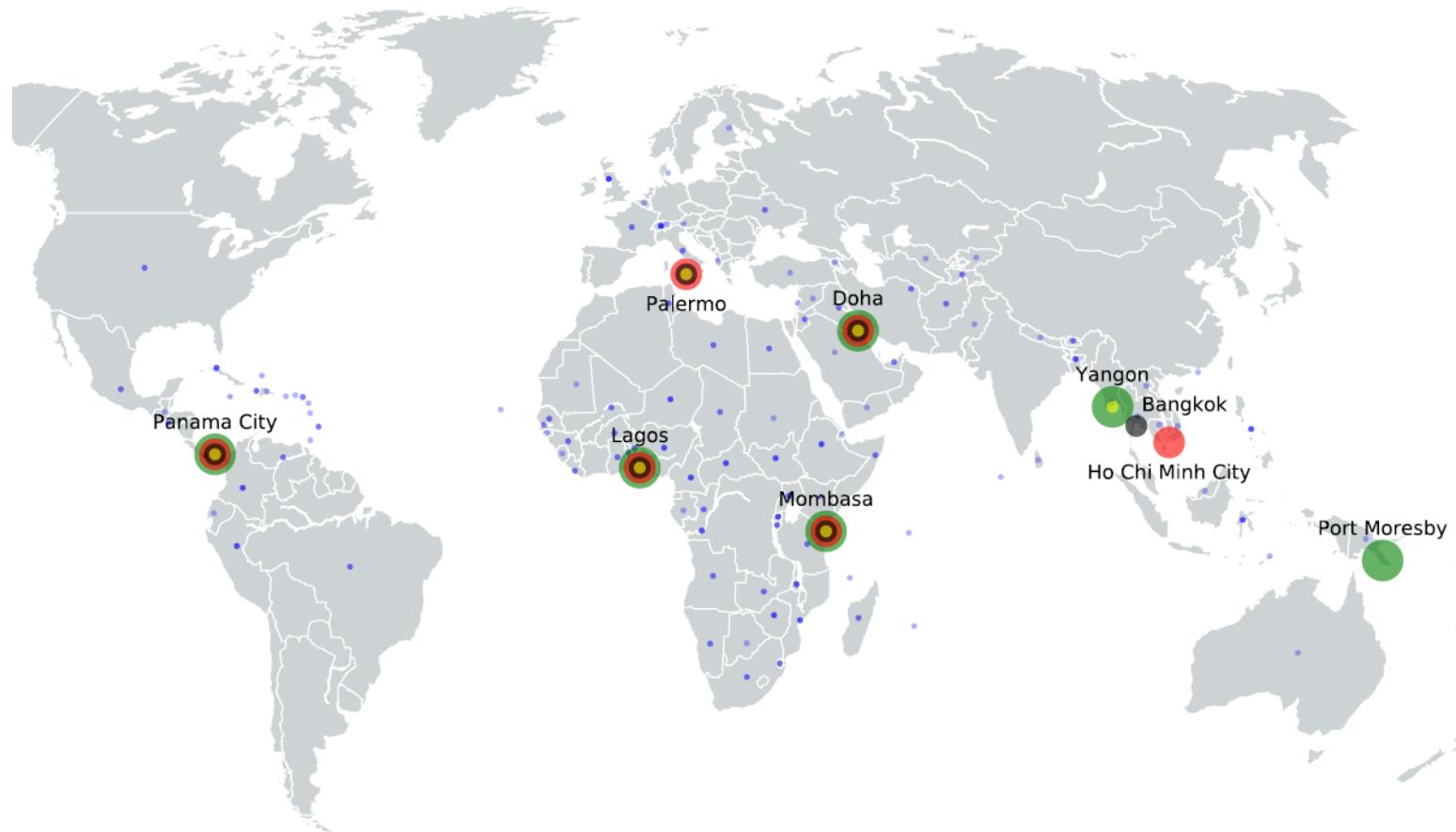


Total Feedcalculator
users

3107



Optimal Locations UN Humanitarian Response Depots



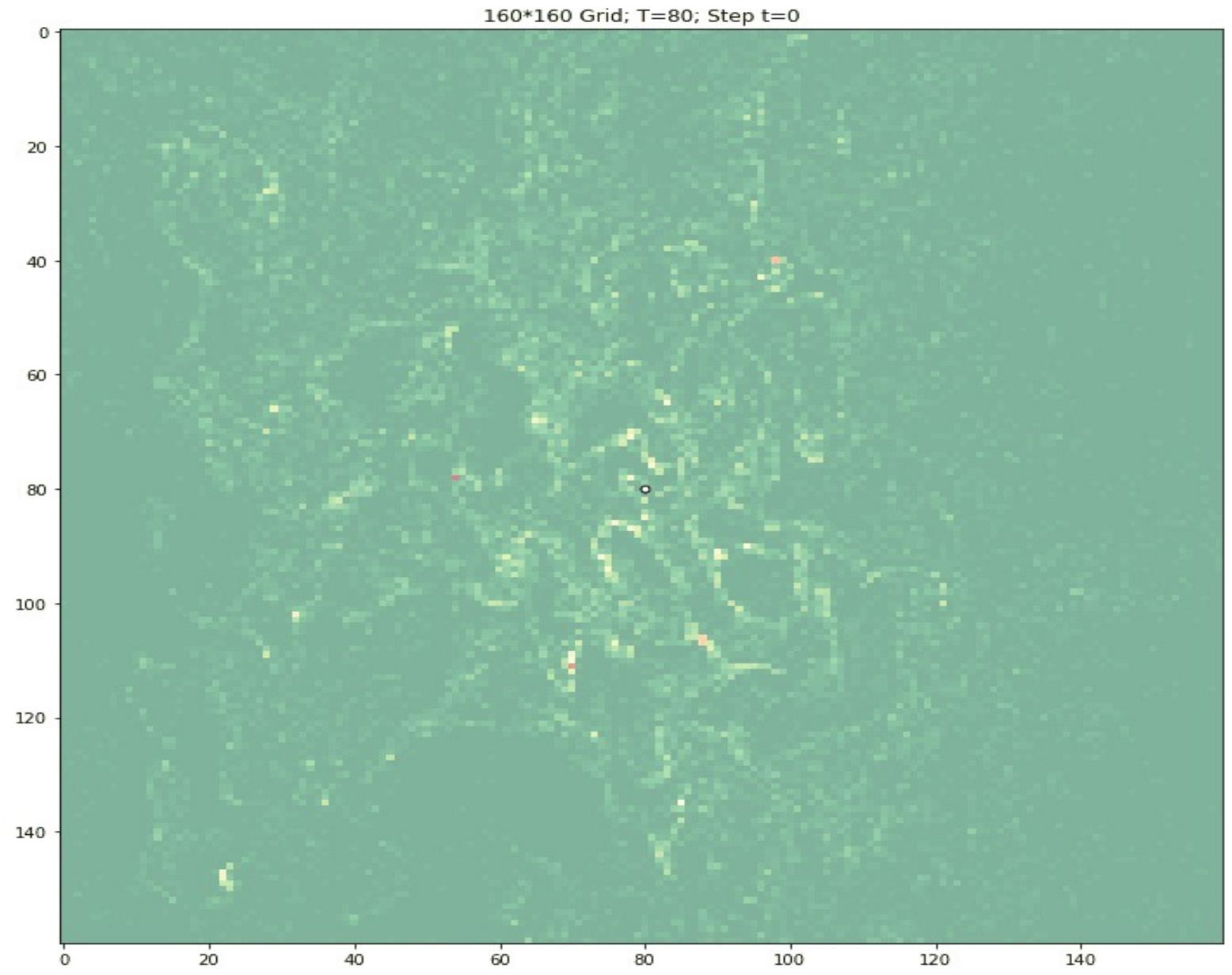
Optimal plastic removal from ocean



Optimal plastic removal from ocean

Developed by:

Jean Pauphilet (LBS)
and
Baizhi Song (LBS)





Thank you!