

COPERNICUS LAND COVER MONITORING

by

BRUCE McCORMACK

President - Irish Organisation for Geographic Information

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Copernicus Training and Information Day

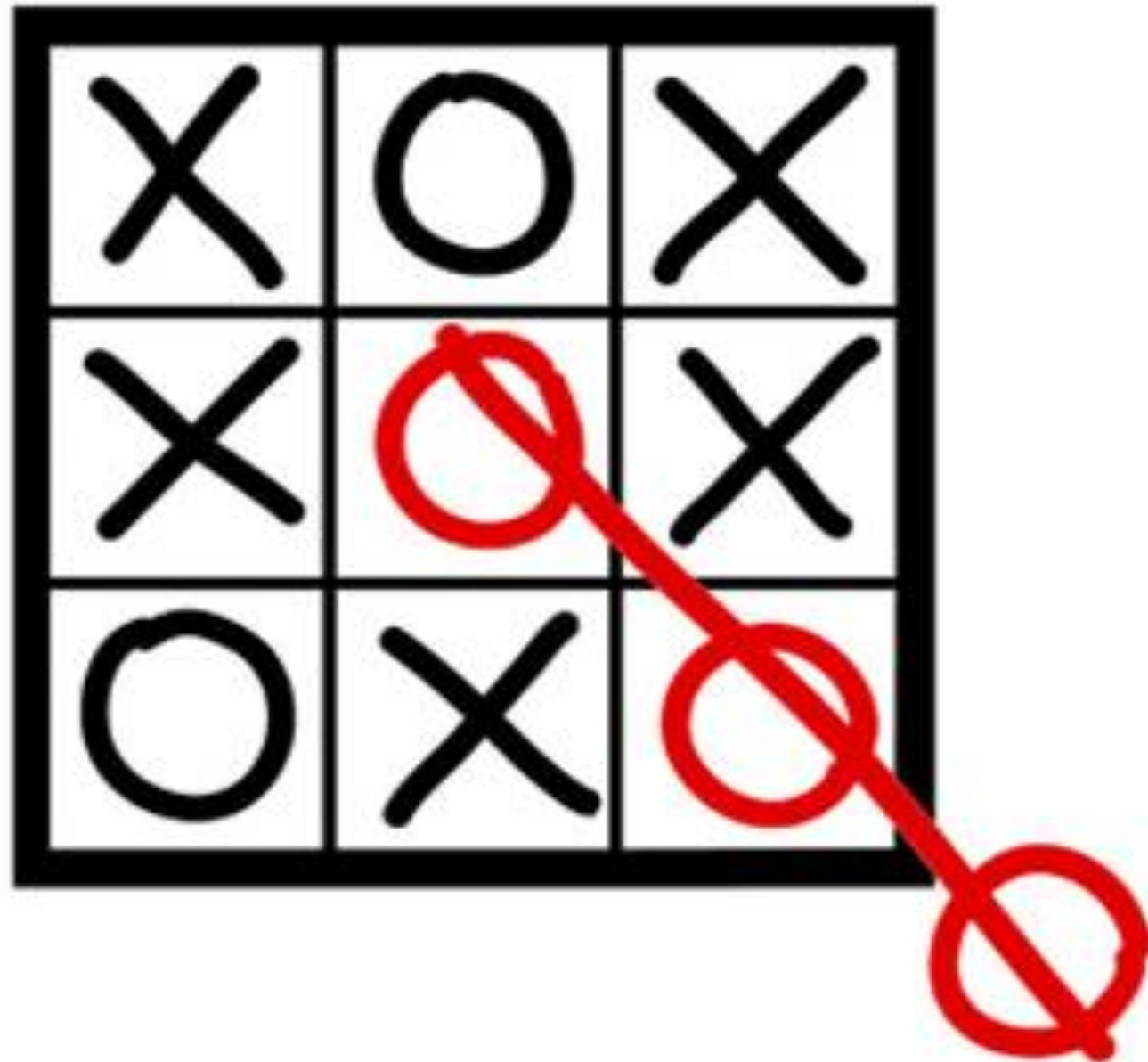
NUI Maynooth

3 November 2017



A LITTLE BIT

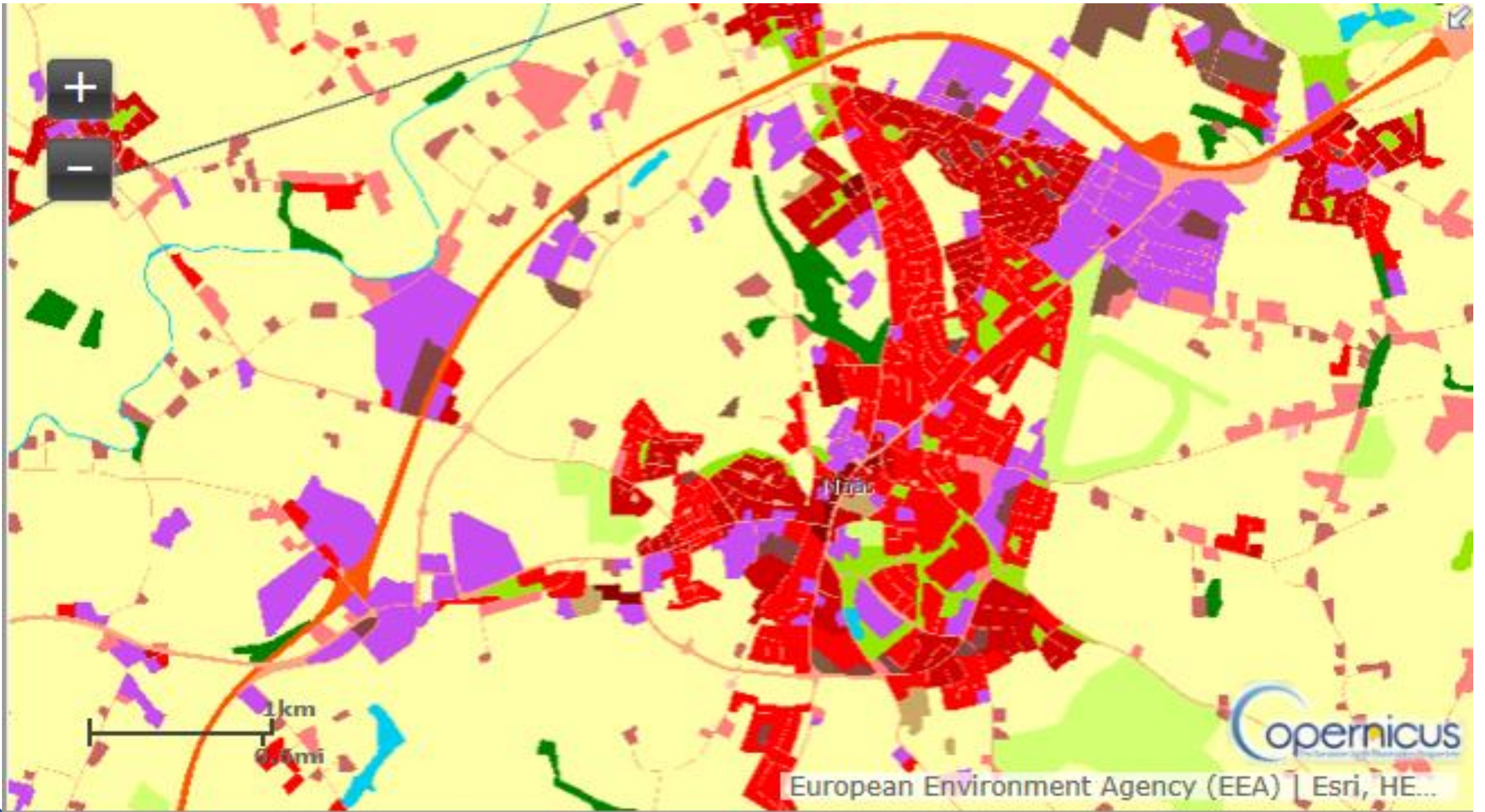




A LITTLE BIT

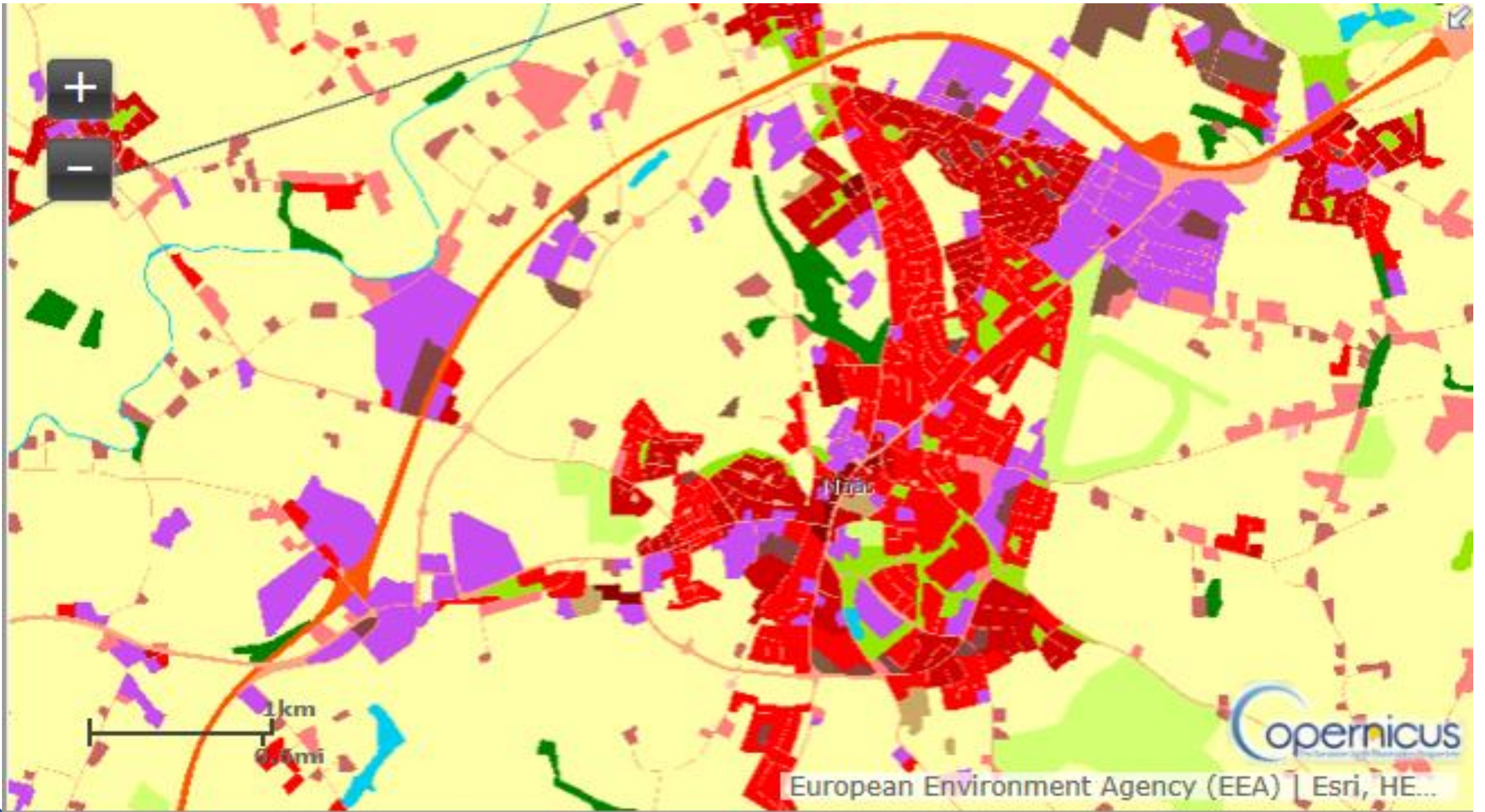
THE BOX

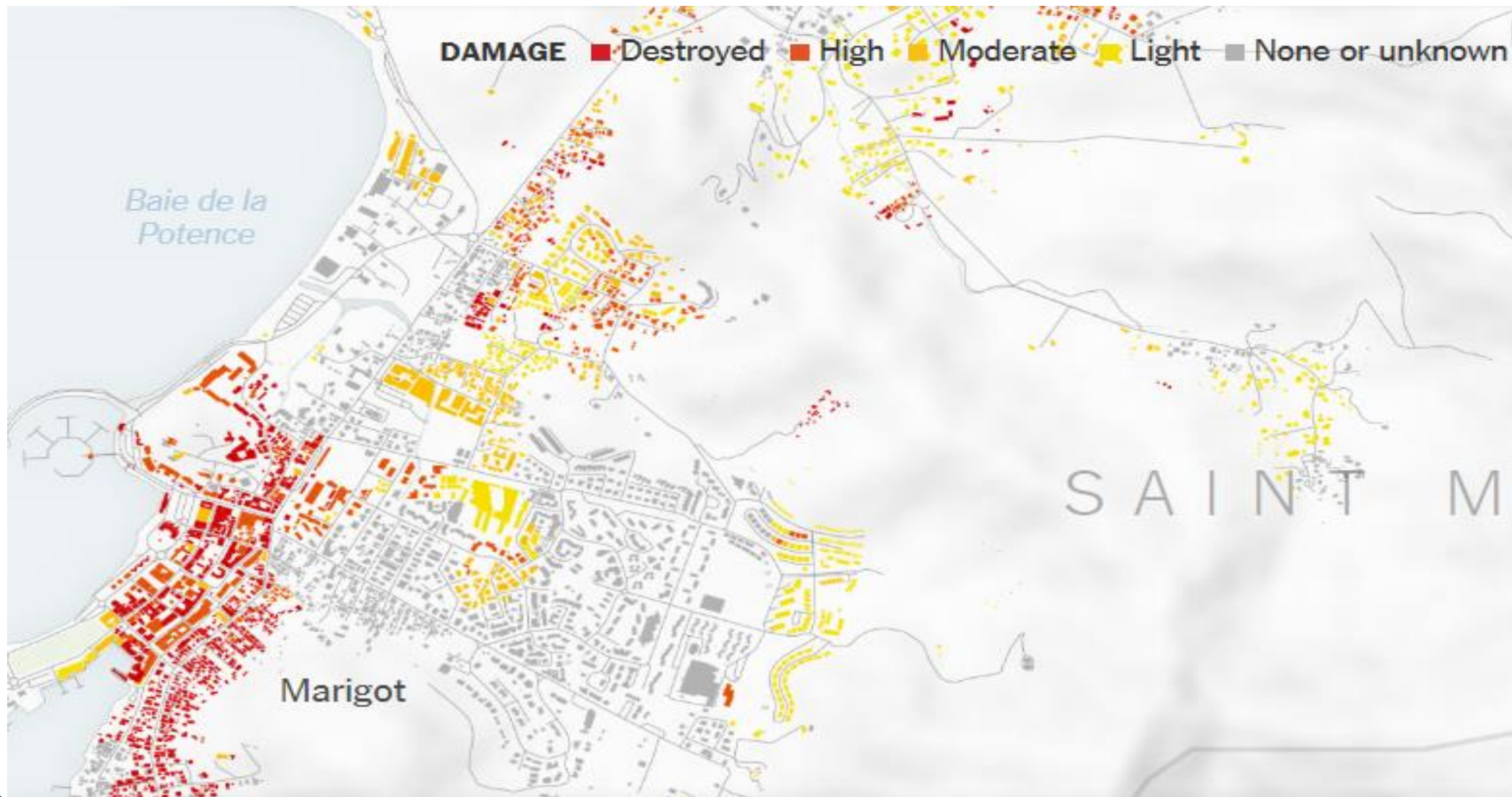
**‘STANDARD’ STATIC 2D
REPRESENTATION OF LAND
COVER**



LAND COVER

THE 'THINGS' WHICH
COVER THE LAND
CLASSIFIED IN SOME WAY
(OR NOT CLASSIFIED!)



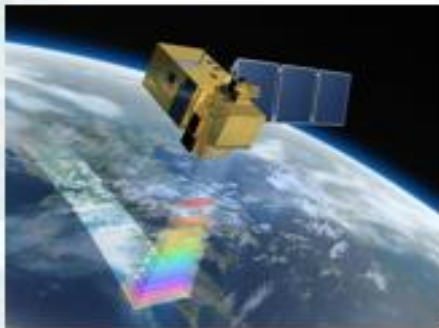




Copernicus

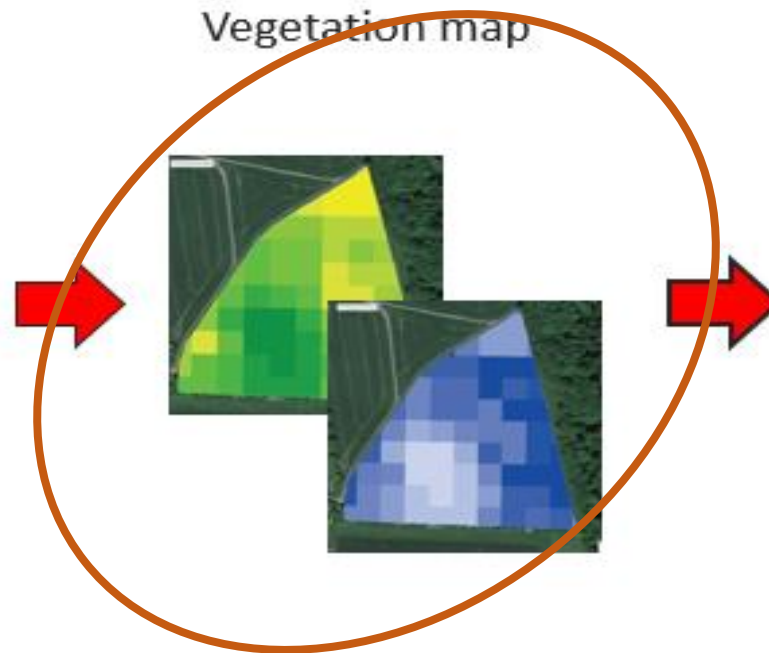
Fertilizer application based on data from Sentinel-2A

Sentinel 2



© ESA

Vegetation map



Fertilizer variable rate application



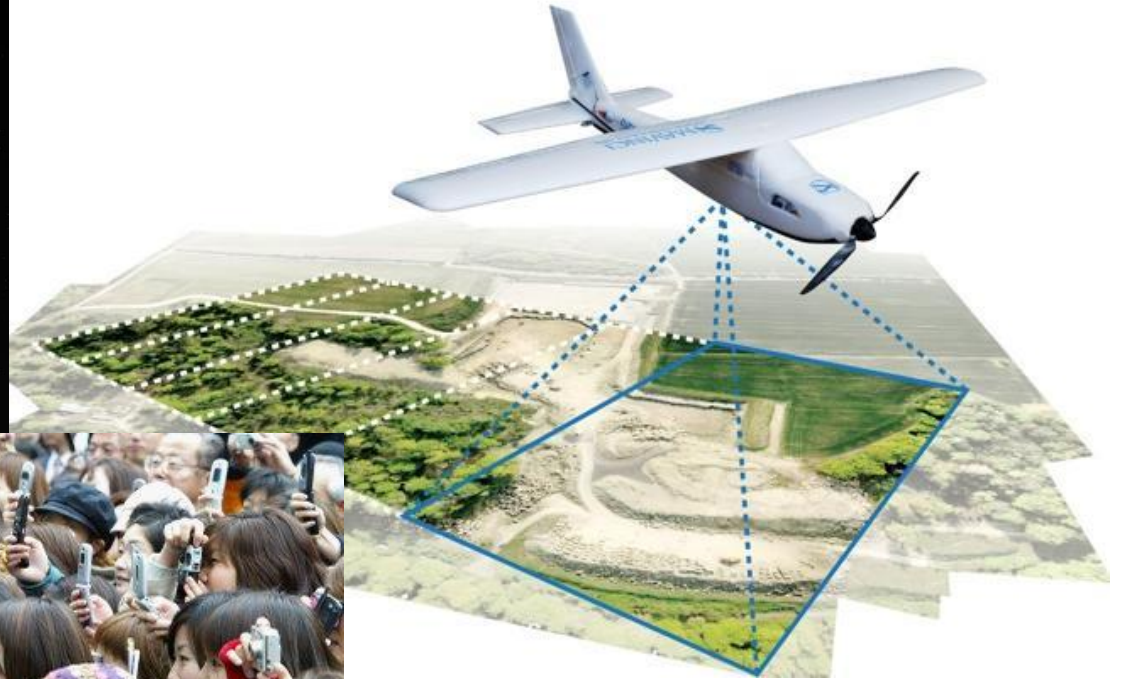
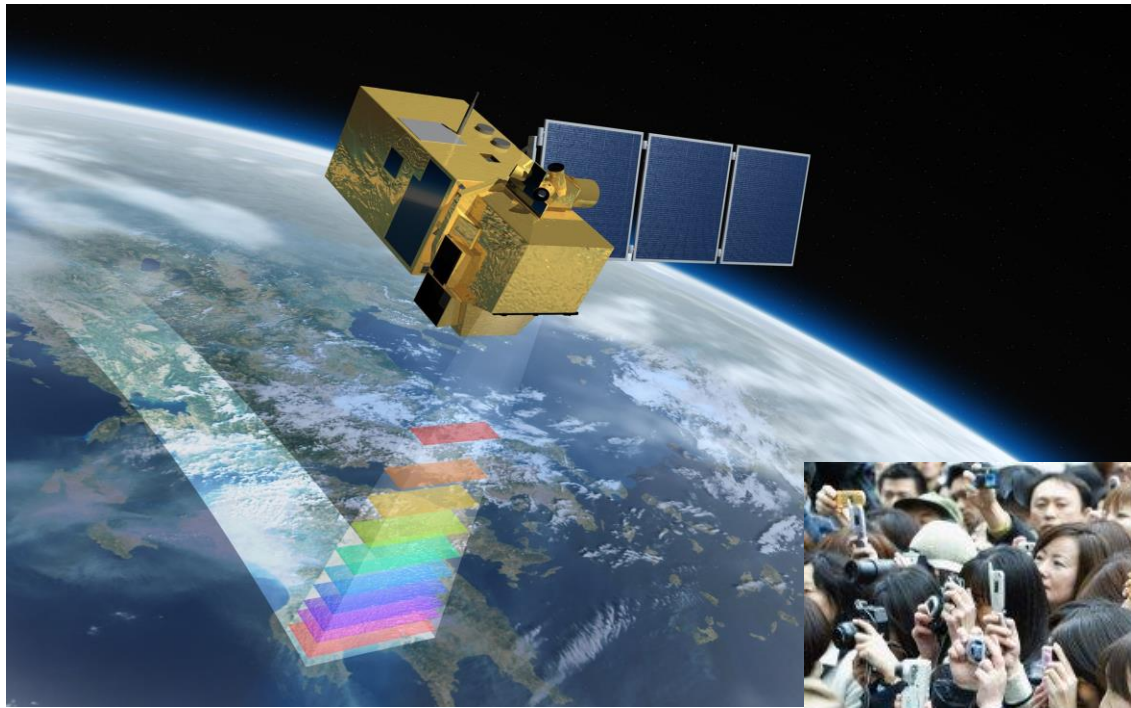
Presentation prepared by Rita Hørfarter, SEGES, Denmark



9 AUGUST 2016



LAND COVER \neq LAND USE







LAND COVER
CHALLENGES

No. 1

AUTOMATING LAND COVER MAPPING MACHINE LEARNING



Land cover detection using Sentinel-2

Copernicus for Entrepreneurs and Developers



Space



copernicus EU



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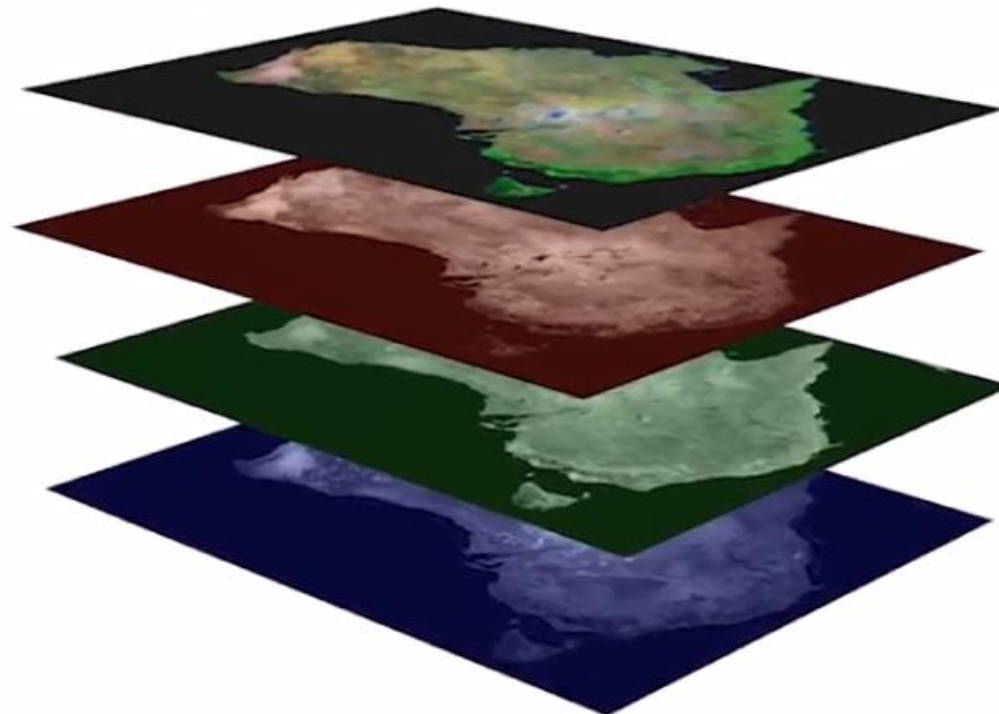
Copernicus EU



www.copernicus.eu

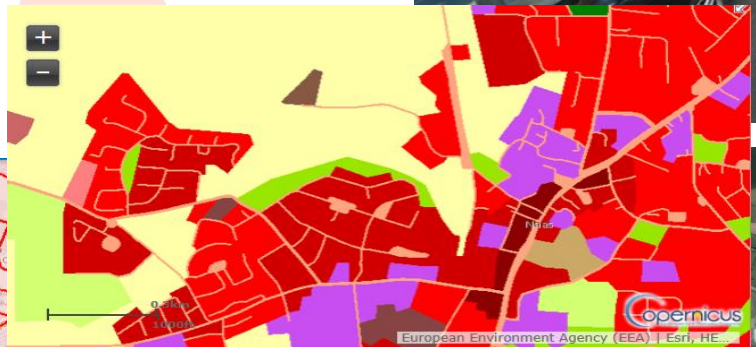
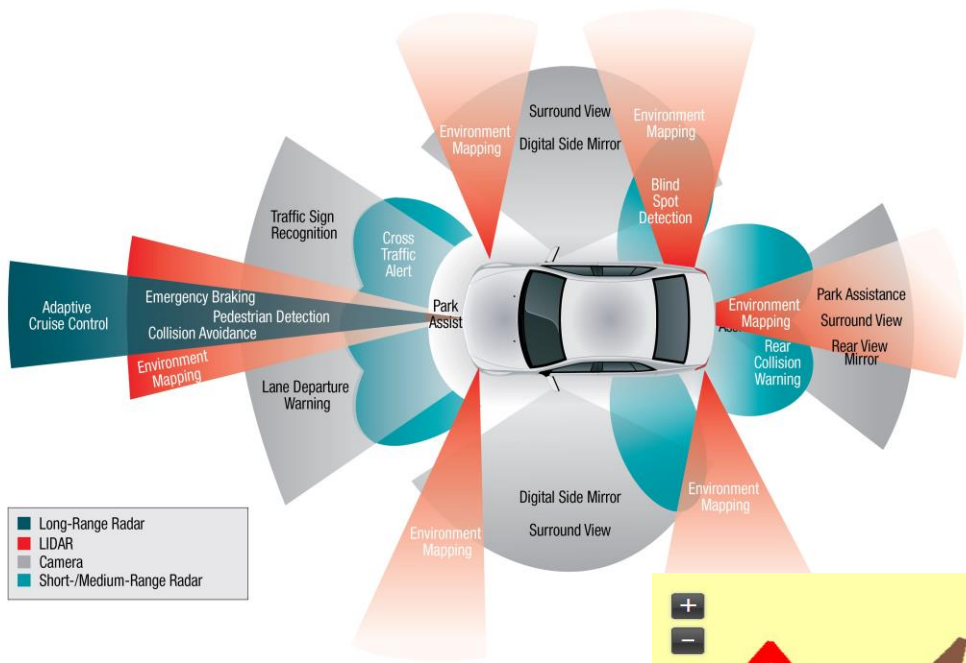


No. 2 DATA CUBES

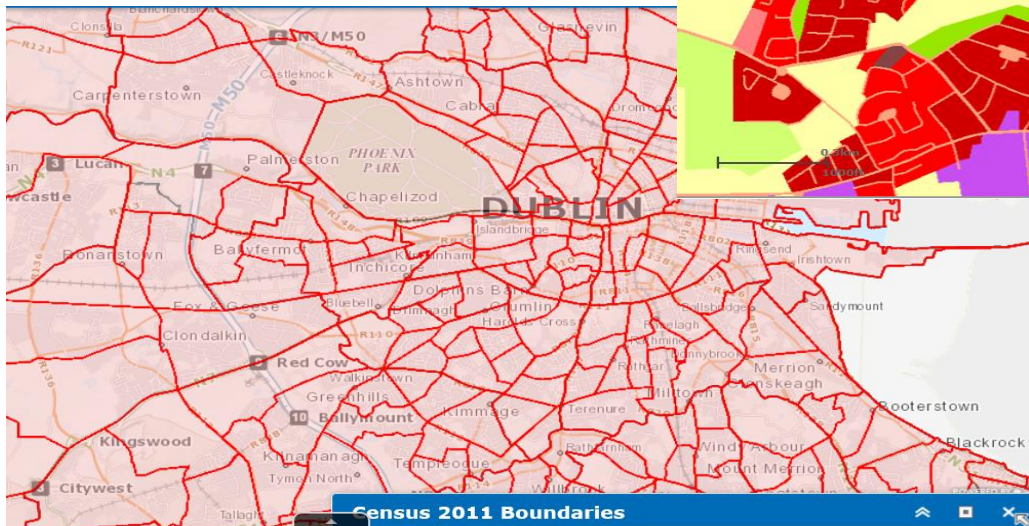


No. 3
DATA INTEGRATION

Driverless Vehicles



Census



Google Streetview



GeoDirectory



OPPORTUNITIES

out there in the Real World

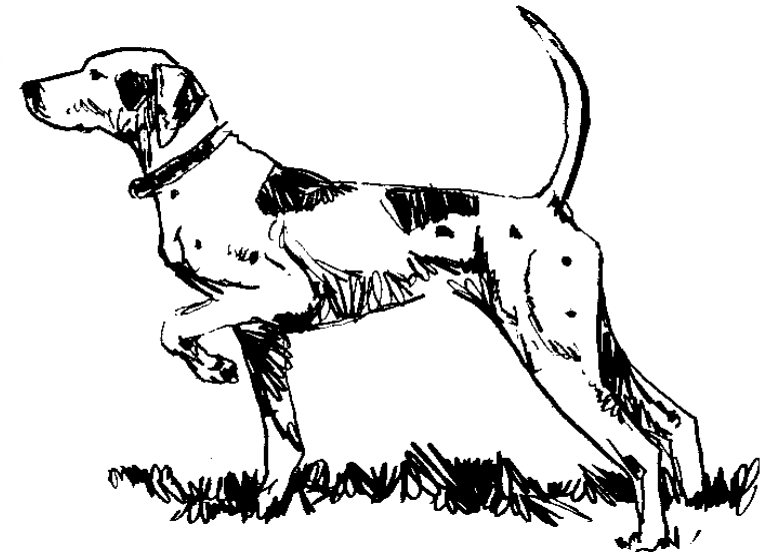
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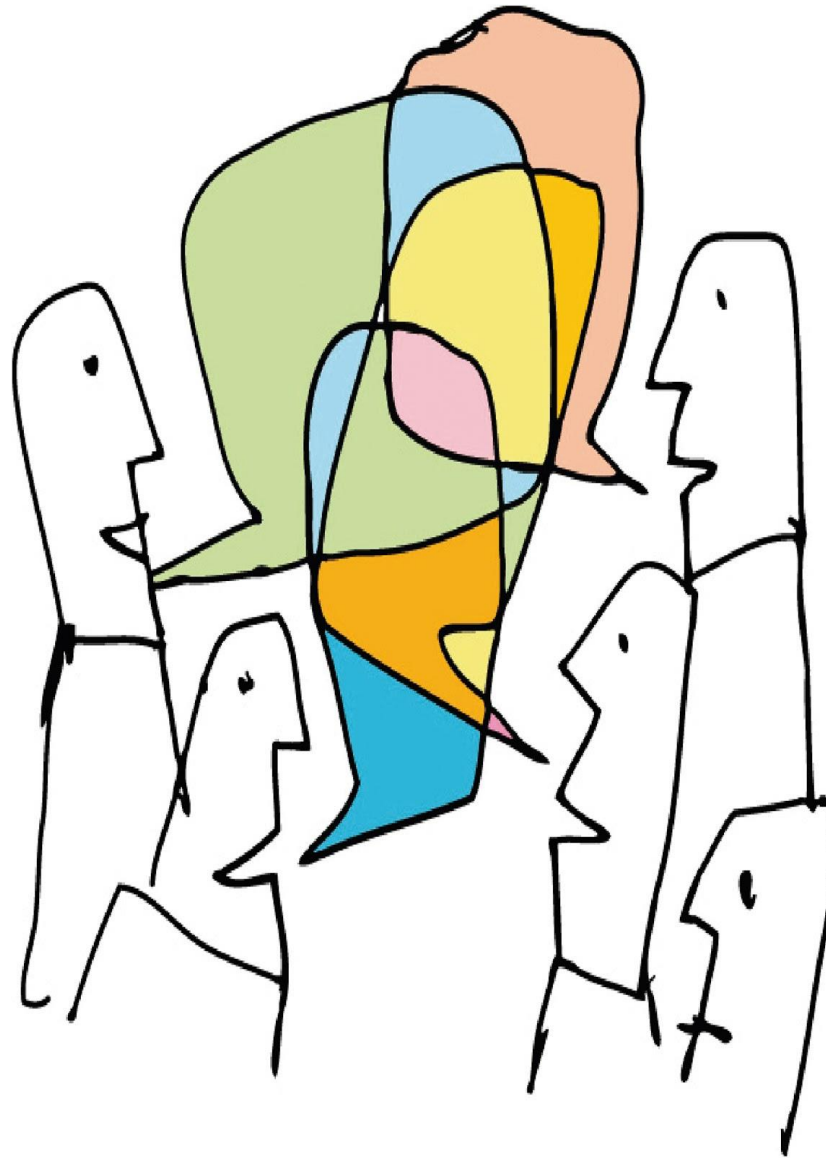
IMPROVED GOVERNMENT SERVICES and SOME MONEY TO BE MADE



GIS

and AI and DCs and





Opportunities Everywhere

Lets Talk ... Lets Brainstorm ... Lets Grab Them >>>>>> join IRL  GI