



An
Phríomh-Oifig
Staidrimh

Central
Statistics
Office

Ireland's innovative approach to monitoring the SDG indicators through geospatial visualisation

Kevin McCormack

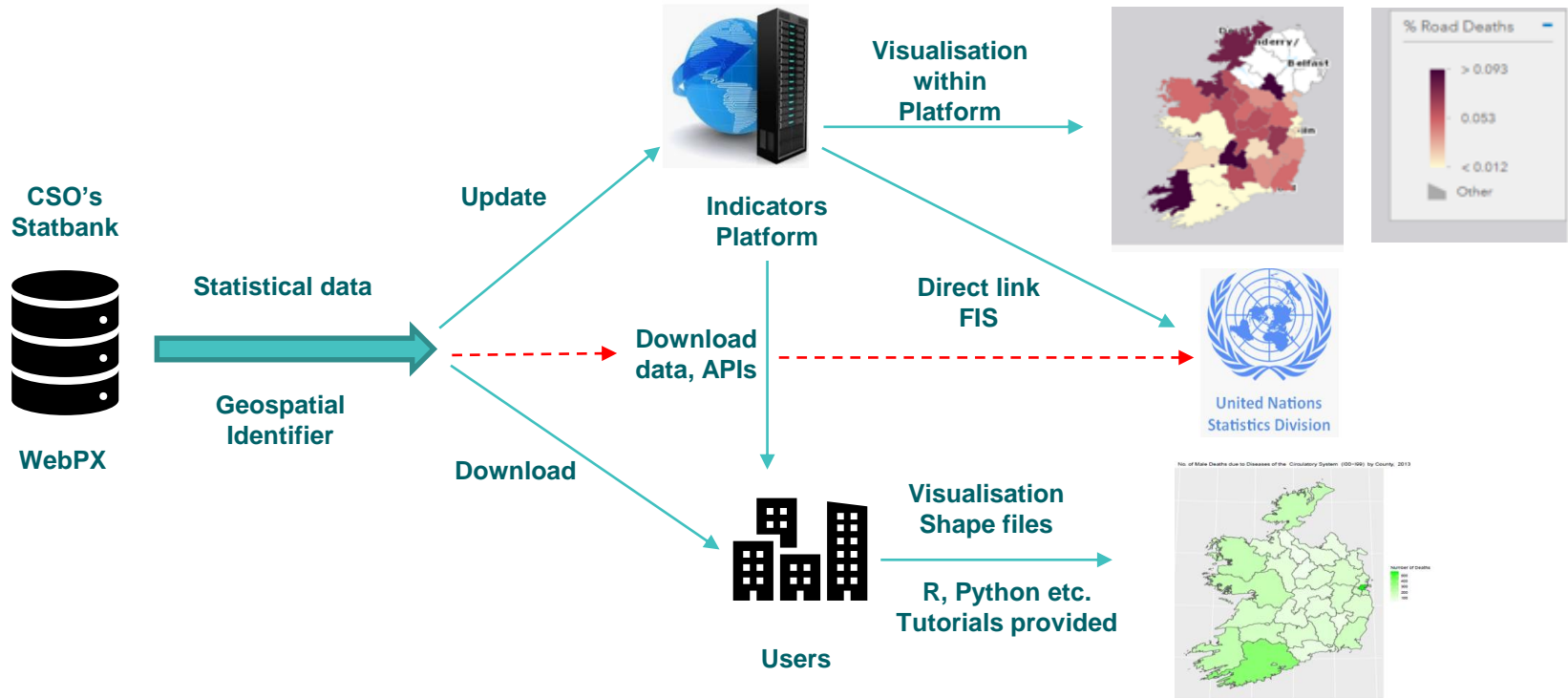
UNSD/Esri – FIS for SDGs Programme

The Irish Central Statistics Office (CSO), in collaboration with Ordnance Survey Ireland (OSi) and Esri Ireland, are currently participating in the **UNSD/Esri Federated Information System (FIS) for the Sustainable Development Programme**. This is an exemplar of both inter agency and public-private sector partnerships

This programme commenced in May 2017 with a goal to develop and deploy a new approach for monitoring the UN SDGs using geographic information systems – “geospatial potential of statistical data.”



Ireland's SDG reporting ecosystem



Tasks completed by Project Team

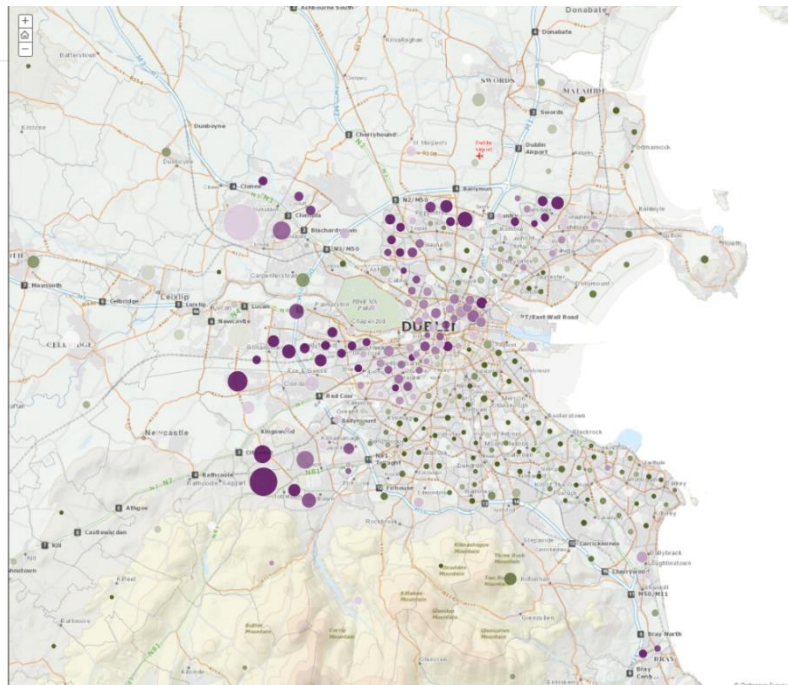
Sourced information for 211 **indicators** (mostly Tier 1), of which 60 have a geospatial aspect, and created **100+ datasets** at NUTS 3, county and census local area geography.

Developed Ireland's **National SDG Indicators Platform**, built with Esri technology and hosted on OSi's web portal, known as GeoHive, where interested parties can openly access, visualise and download data and related APIs.

<http://ireland-s-hub-for-sustainable-development-goals-irelandsdg.hub.arcgis.com/>



Story Maps



Geospatial Potential of Statistical Data

- Geospatial identifier with all statistical data.
- Esri Shapefiles readily available.
- Now testing Earth Observations data – merging with census boundary files (shapefiles) and geospatially coded statistical data.



Mapping a Table of Data with Esri Shapefiles in R - Tanzania

An introductory tutorial to mapping opensource data with two shapefiles using the “*ggplot2*” and “*tmap*” packages in R

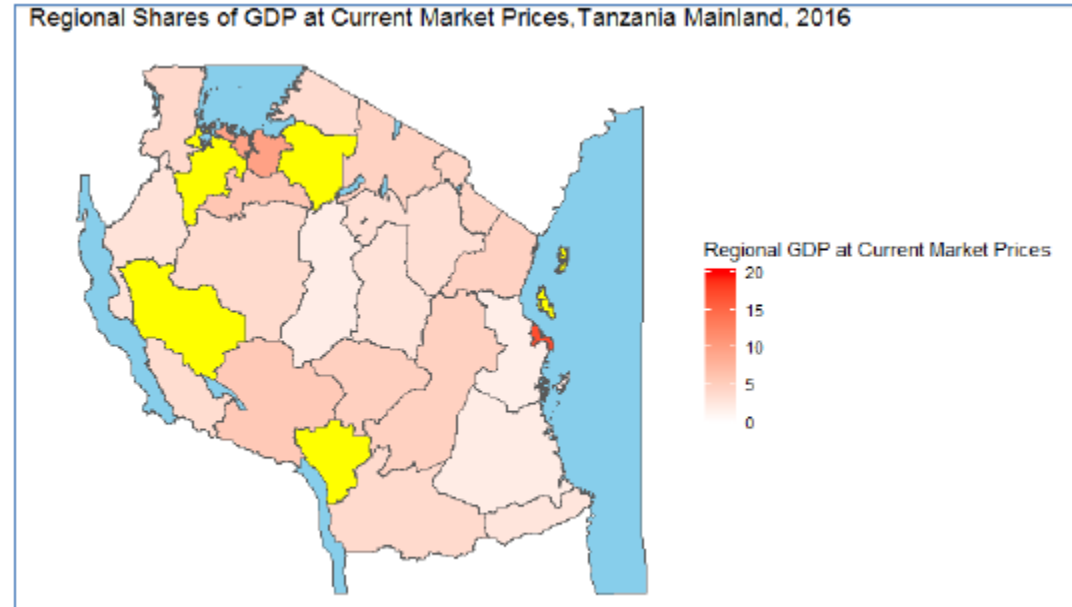


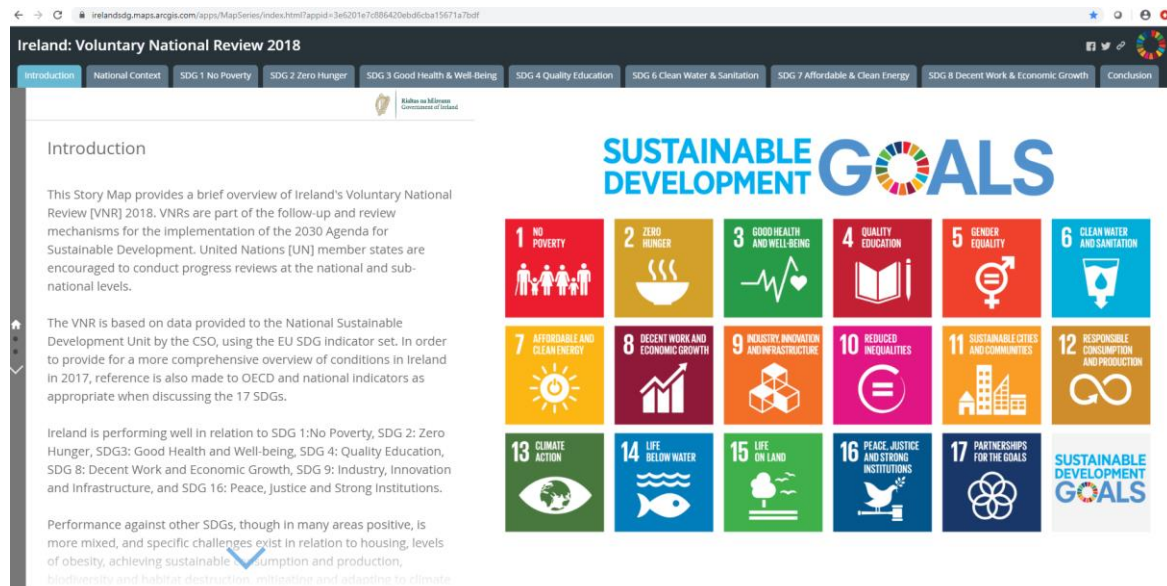
Figure 1: Geospatial presentation of GDP data.

VNR - Story Map

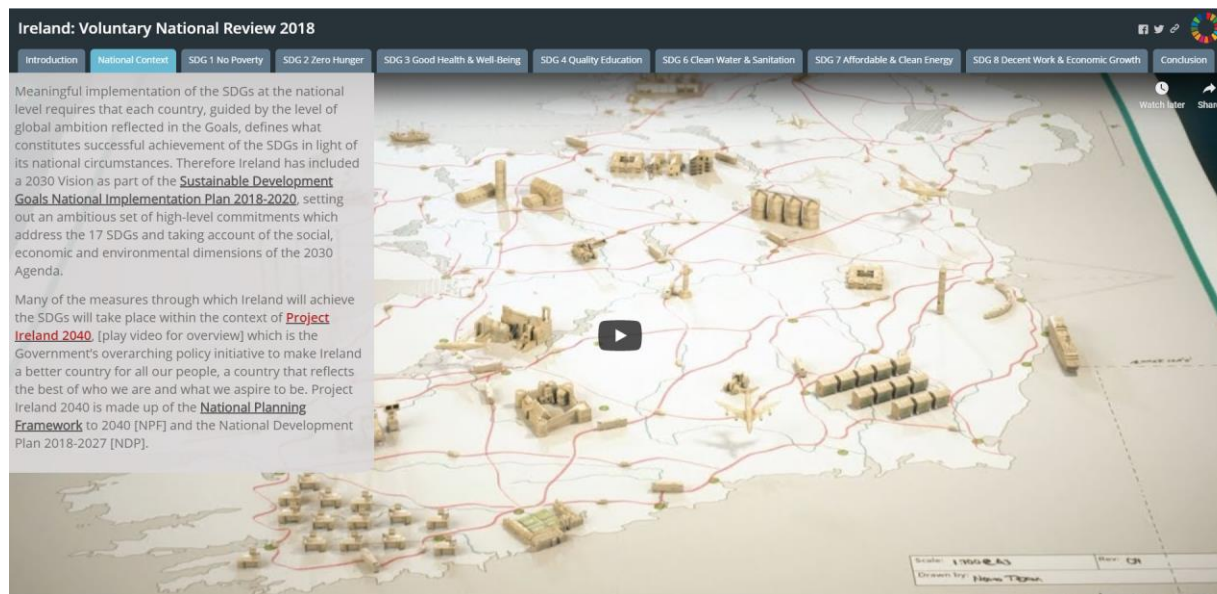
- Prepared for Ireland's VNR
- Complementary to traditional PDF document
- Well received
- Content agreed with Department of Communications Climate Action and Environment (DCCAE) – policy department with responsibility for SDGs.



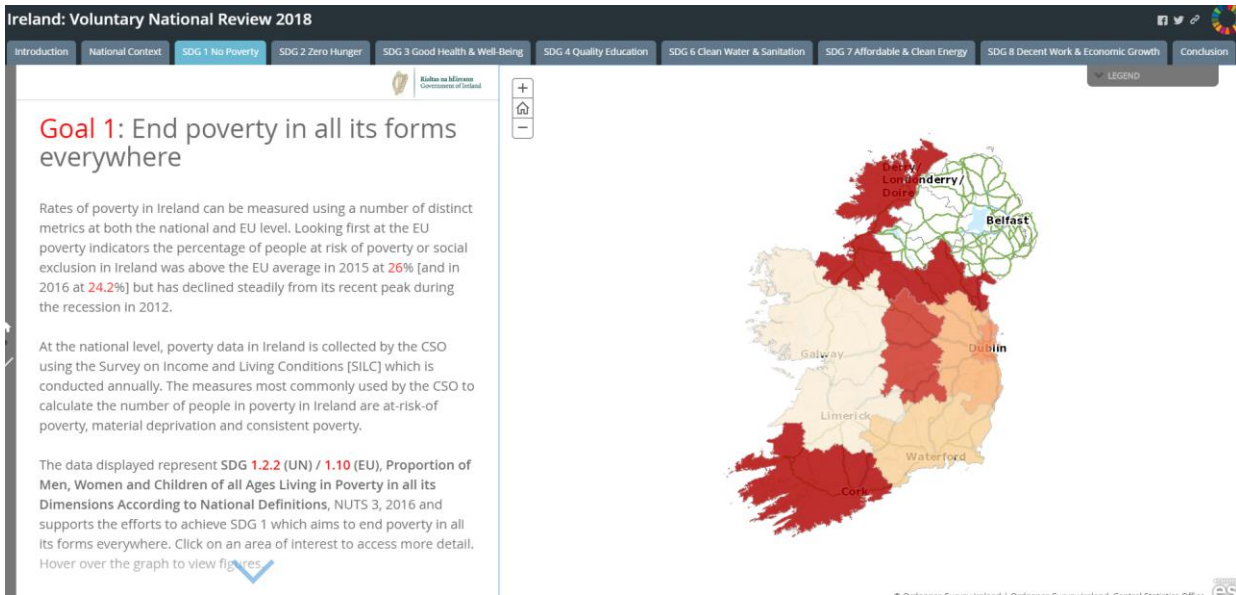
VNR - Story Map



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VNR - Story Map



VNR - Story Map

