

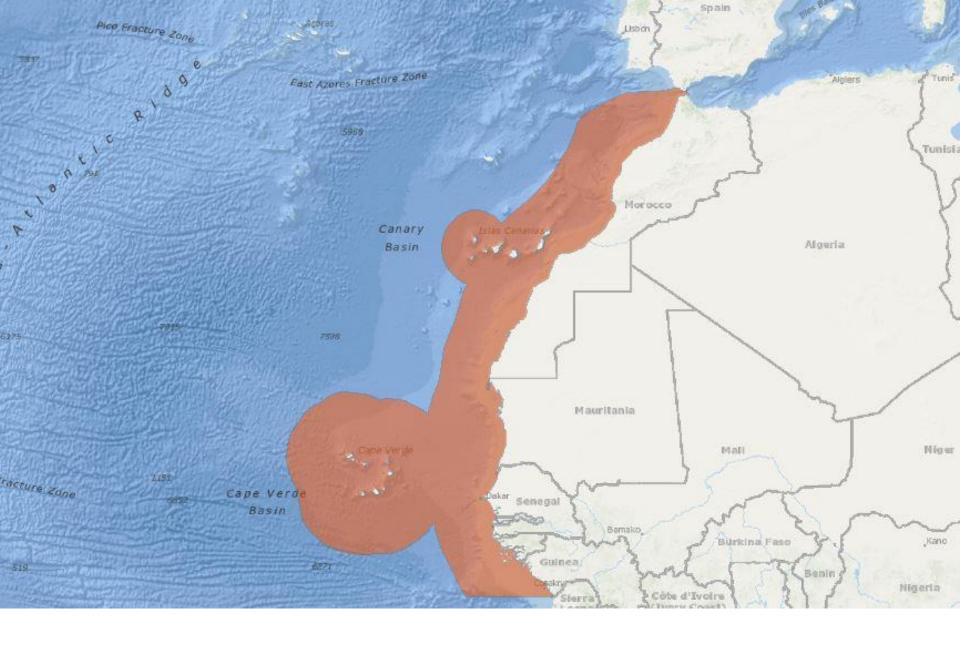




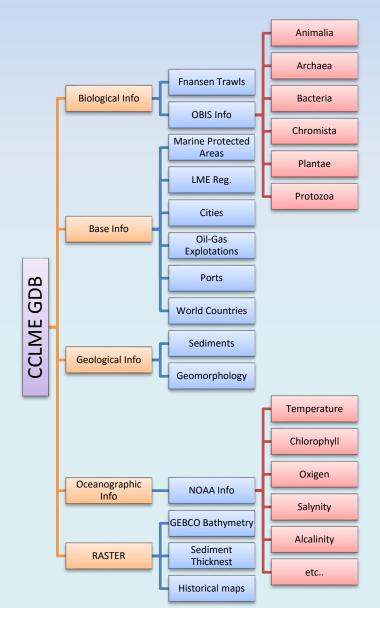


Presentation of the Prototype of the CCLME Eco-GIS Viewer and prospects of needs for applications

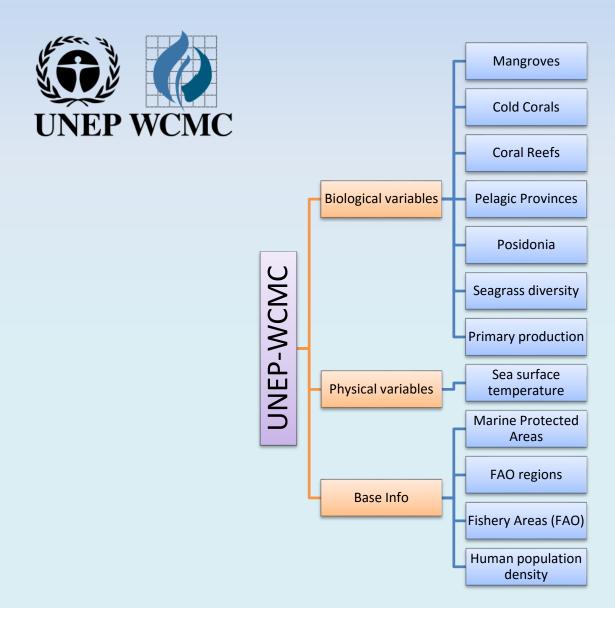
IOC-UNESCO
Luis Miguel Agudo



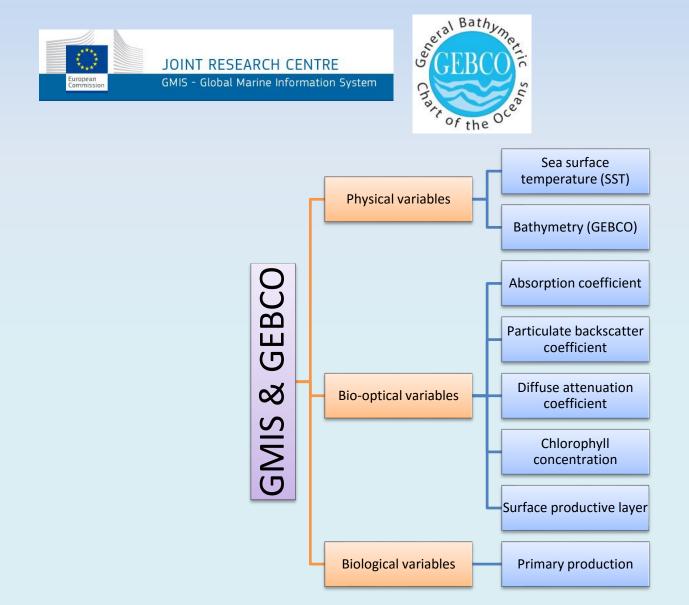
CCLME REGION – CANARY CURRENT LARGE MARINE ECOSYSTEM



GEODATABASE – ARCHITECTURE



WMS - WFS CONNECTIONS



WMS - WFS CONNECTIONS

- Historical Campaings IEO from 1980
 - More than 40 Ocenographic Campaigns
 - Rescue and recovery of 17 IEO fisheries surveys
- SIRENO DataBase
 - RDBMS: ORACLE
 - Trawls information
 - Information about species data samples
 - Oceanographic campaigns information
 - Water Column Information (Radials, CTD, etc)

ABUNDANCE

BIOMASS

RICHNESS

TROFIC INDEX

GEODATABASE – Historical Oceanographic Campaigns IEO

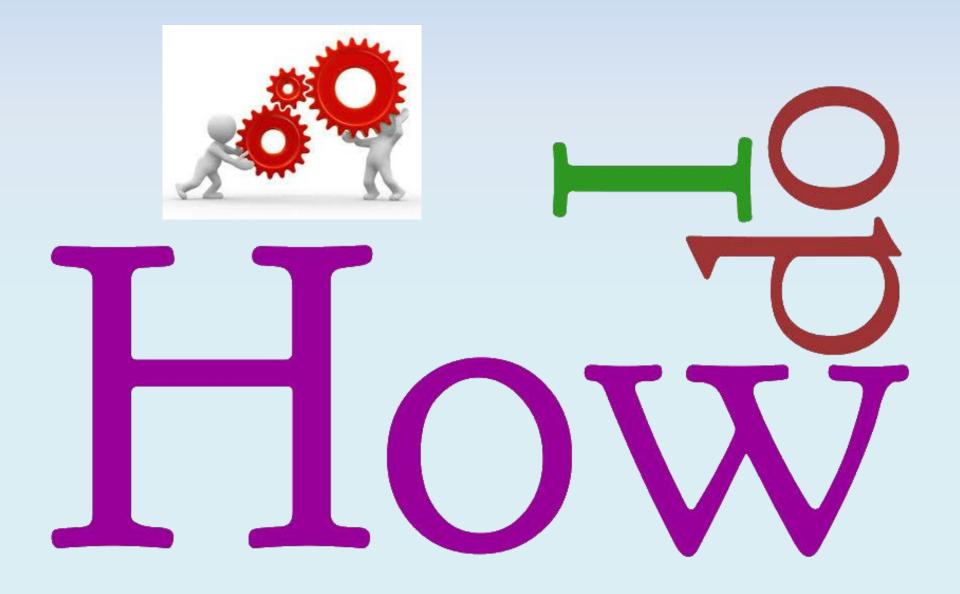
 Deliver a product that can be integrated in regular national, regional and global regular assessments of the status, trends and key drivers of marine and coastal ecosystems

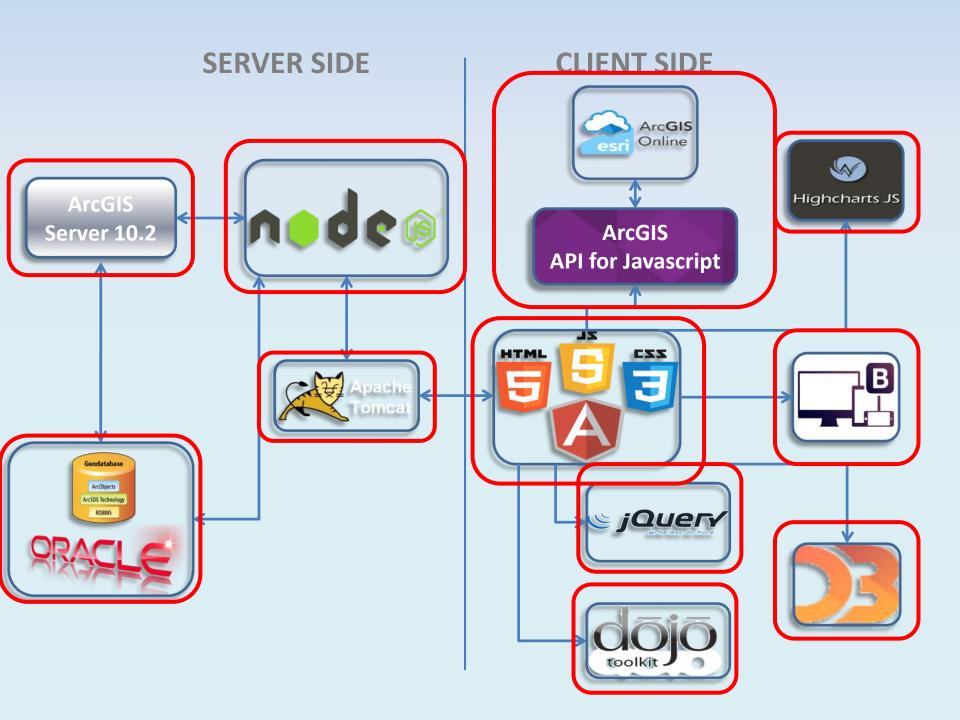
• Expected result:

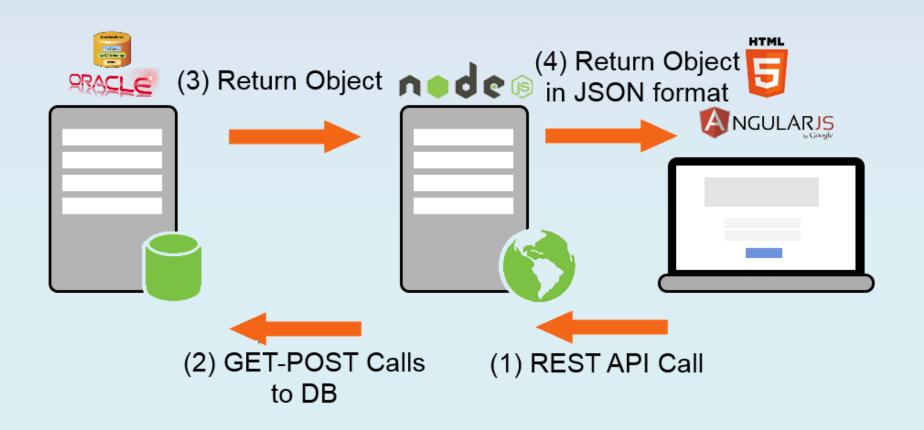
Deliver a dynamic GIS tool to **explore**, **analyse** and compare data with the aim to produce new scientific knowledge

EXPECTED RESULT

np V rum P Treemium





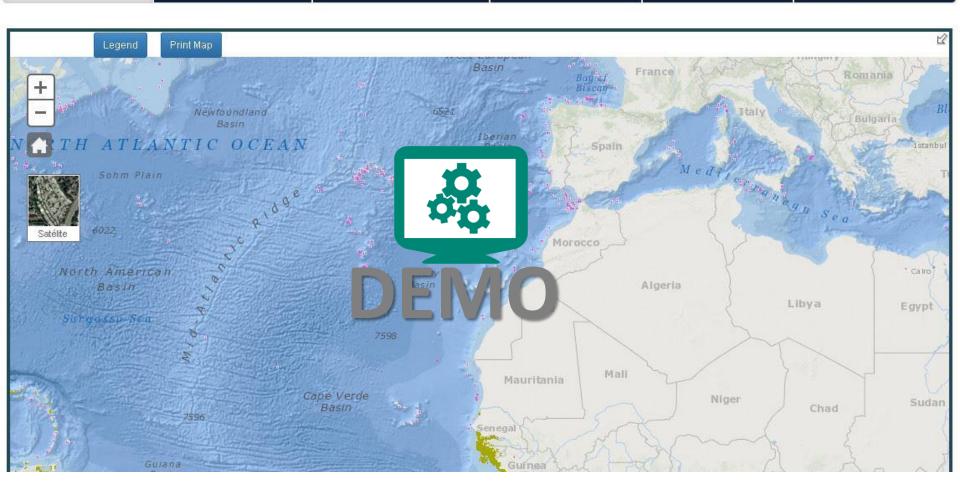


NODE & ANGULAR – Model View Controller (MVC)



CCLME DATA ANALYTIC VIEWER

Home The Project Dropdown - Query About Contact



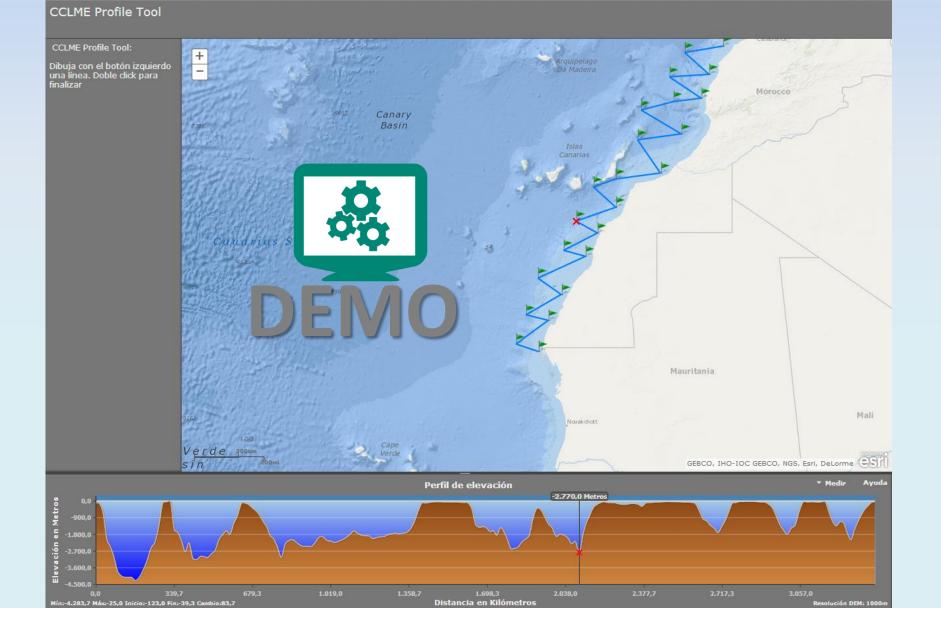




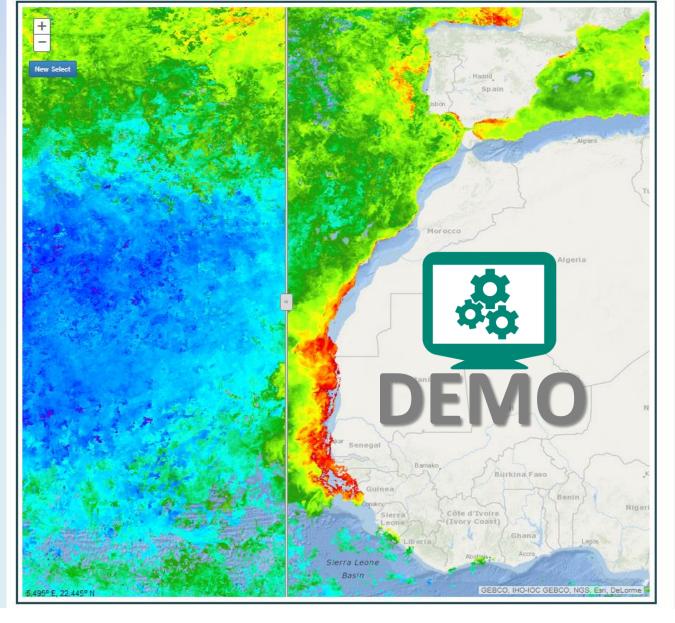


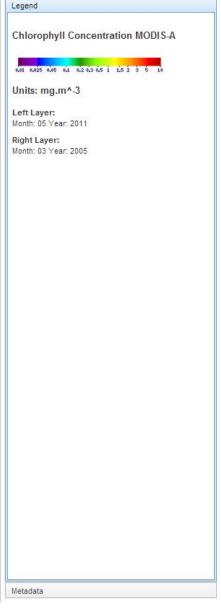




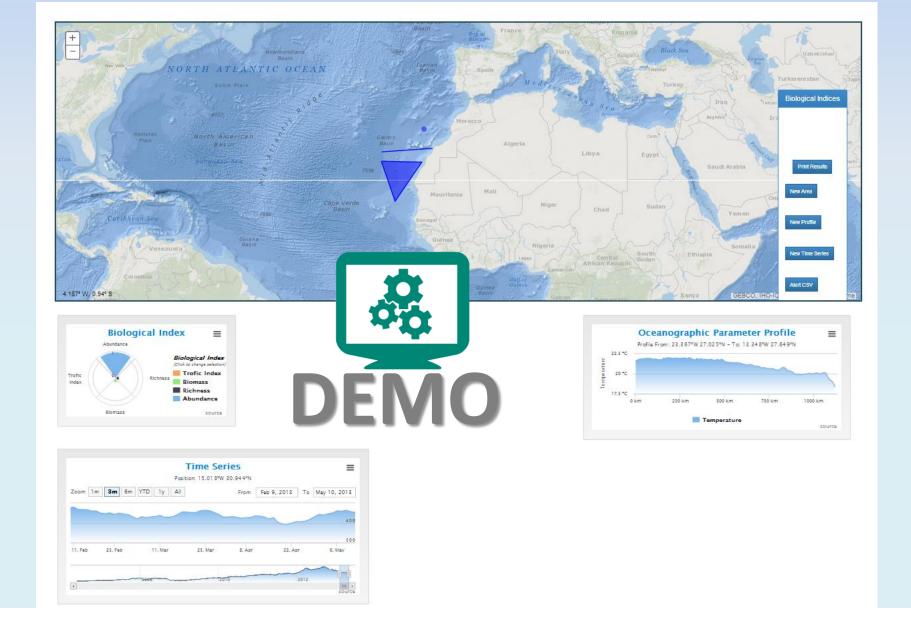


WEB APP – Elevation Profile Tool





WEB APP – Comparative Tool



WEB APP - Charts & Profiles Tool



Model-view-controller (MVC) is a software architectural pattern for implementing user interfaces. It divides a given software application into three interconnected parts, so as to separate internal representations of information from the ways that information is presented to or accepted from the user

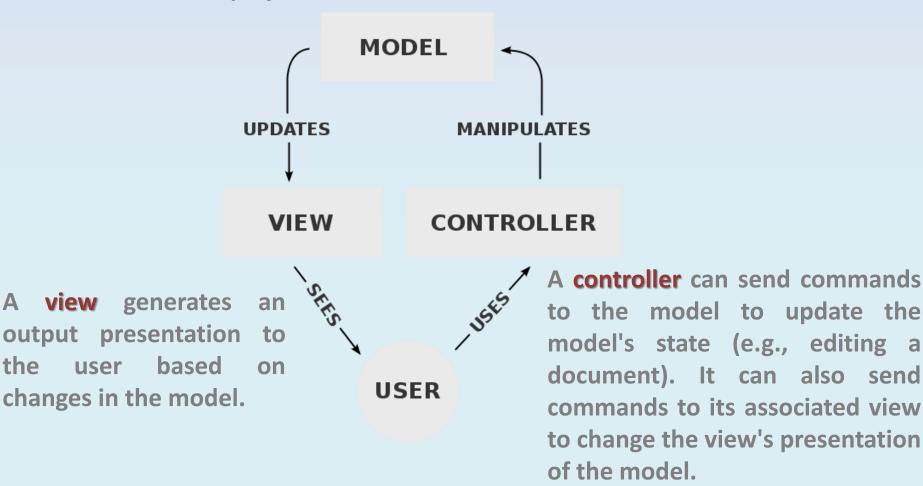
https://github.com/lvasquez/sb-admin-2-bootstrap-template-asp-mvc





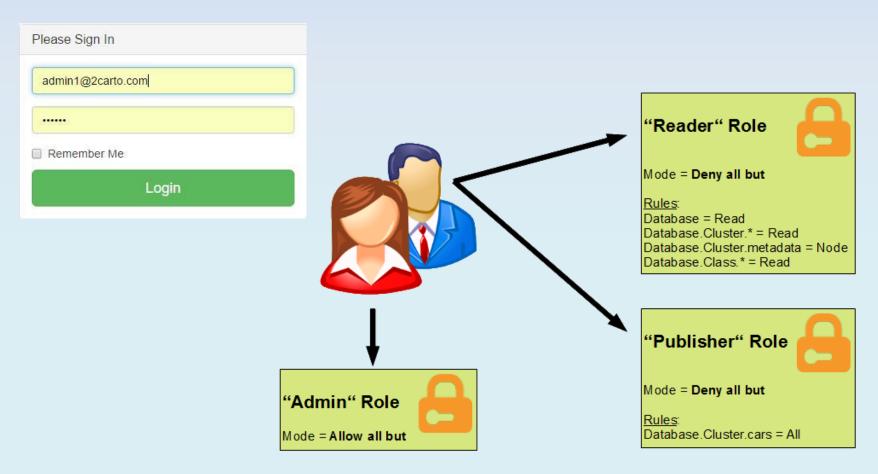
ASP.NET MVC5

A model stores data that is retrieved according to commands from the controller and displayed in the view.



ASP.NET MVC5

Security - Management Users/Groups/Roles



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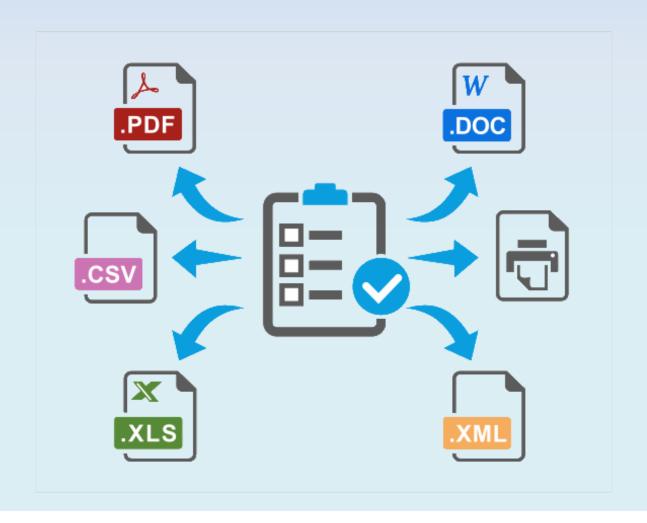
- Calculation of spatial and temporal anomalies → Chl-a, SST?
- Display of regional maps showing different oceanographic parameters (one single parameter, two parameters and anomalies) → Chl-a, SST
- Calculation and/or interpolation of time series of oceanographic data
- Statistical analysis of oceanographic data for an area selected by the user → Trends?
- Calculation of biological indicators in the areas selected by the users according to their needs → Fisheries?

NEXT STEPS – Analyst Tools

- Calculation of spatial and temporal anomalies → Chl-a, SST?
- Display of regional maps showing different oceanographic parameters (one single parameter, two parameters and anomalies) → Chl-a, SST
- Calculation and/or interpolation of time series of oceanographic data
- Statistical analysis of oceanographic data for an area selected by the user → Trends?
- Calculation of biological indicators in the areas selected by the users according to their needs → Fisheries?

NEXT STEPS – Analyst Tools

EXPORT REPORTS



NEXT STEPS – Export Reports

- Migrate to IEO Servers
- Upload historical campaigns to SIRENO
- Encourage to the Countries in order to enrich the geodatabase with New Data
- Export final Reports
- New Analysis **Tools** (Geostatistical, New Trends Analysis, Graphs, ...)

NEXT STEPS



https://github.com/lmagudo/IOC-UNESCO WORKSHOP



NEXT STEPS – Share Code





United Nations Educational, Scientific and Cultural Organization





Luis Miguel Agudo Imagudo@gmail.com



http://2carto.com/



es.linkedin.com/pub/luis-miguel-agudo-bravo/7b/630/8b2/