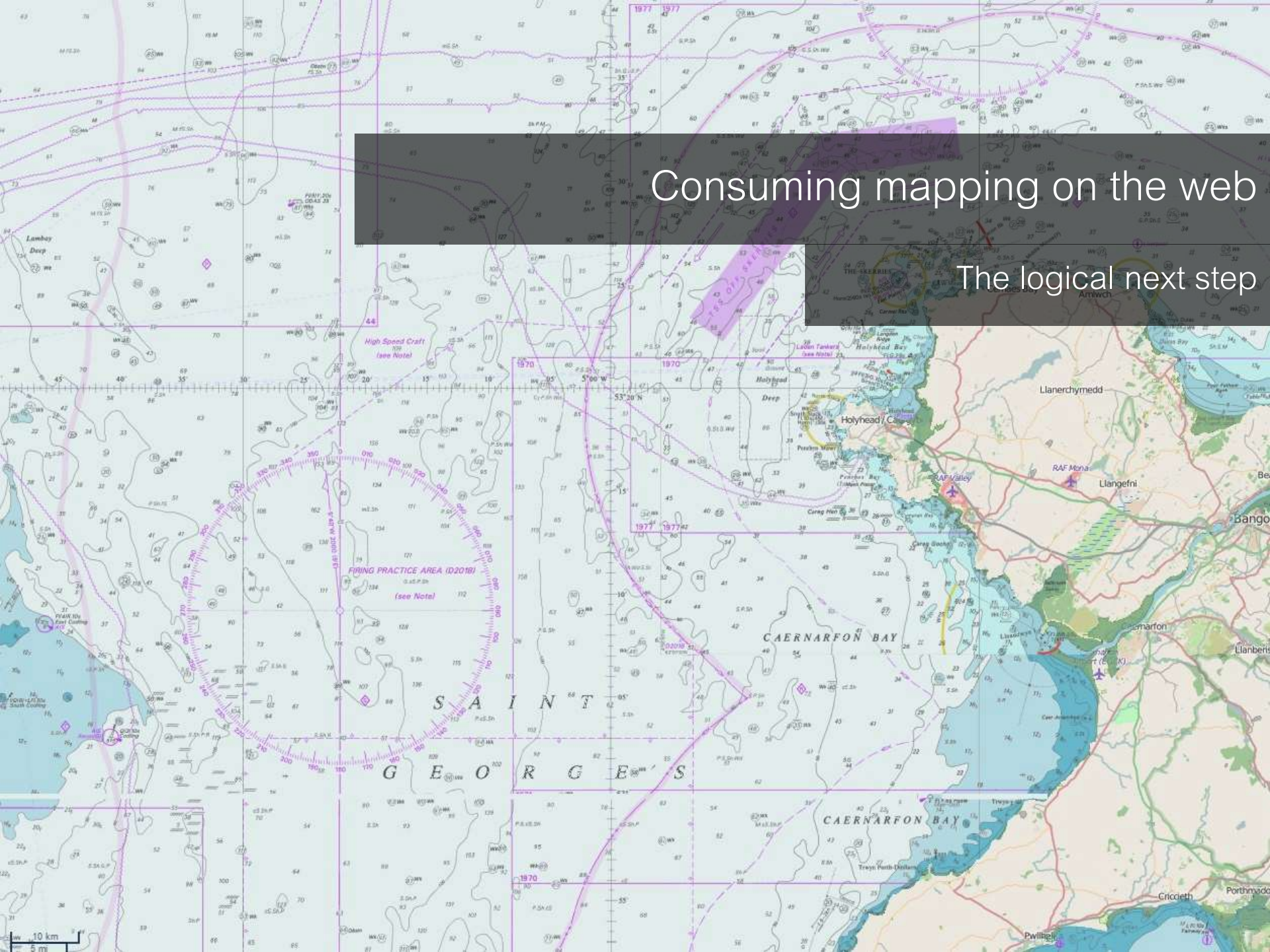

Consuming mapping on the web
The logical next step
Holyhead Deep
Holyhead / Caergybi
Llanerchymedd
RAF Valley
RAF Mona
Llangefni
CAERNARFON BAY
S A I N T
G E O R G E ' S
CAERNARFON BAY
Cricieth
Pwllheli
FIRING PRACTICE AREA (D2018)
(see Note)
High Speed Craft
(see Note)
10 km
5 mi

Updating your datasets is a faff

- Wait for email notification
- Download data from FTP
- Transform data to suit needs
- Check data for errors
- Upload back to internal FTP
- Notify staff via email

Data management nightmare

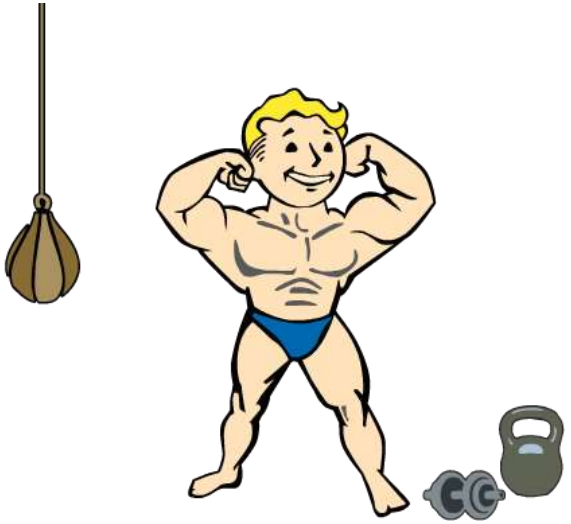
- Duplication, loss & modification without record
- Disconnected datasets cannot be updated
- Unknowingly using out-of-date datasets
- Develop dependencies on local files

Proprietary formats don't share

- Each GIS have proprietary formats which they read/write to very quickly
- Longstanding issue of sharing data between GIS platforms
- Converting between formats is time-consuming and can result in attribution loss

Web mapping is capable

- TMS & WMS both return image tiles to screen
- You can query WMS however it is limited and requires a connection to the source data
- WFS & WCS return vectors/raster features to the screen in the same way local GIS formats do
- Using WFS/WCS you can run advanced queries and modify your datasets either in a GIS or web application



You can still use your GIS

- Web mapping services are not limited to browsers
- You can load web mapping services into your GIS in three clicks
- To get started all you need is the endpoint URL, tile size and projection
- Standards are widely supported in different GIS systems

It's time to make the change

- Method of data delivery and storage have drastically changed in recent years
- Services like Dropbox and iCloud are great at hosting your important personal files
- There's no reason why you can't apply the same methods to your geographic data

What is the OGC?

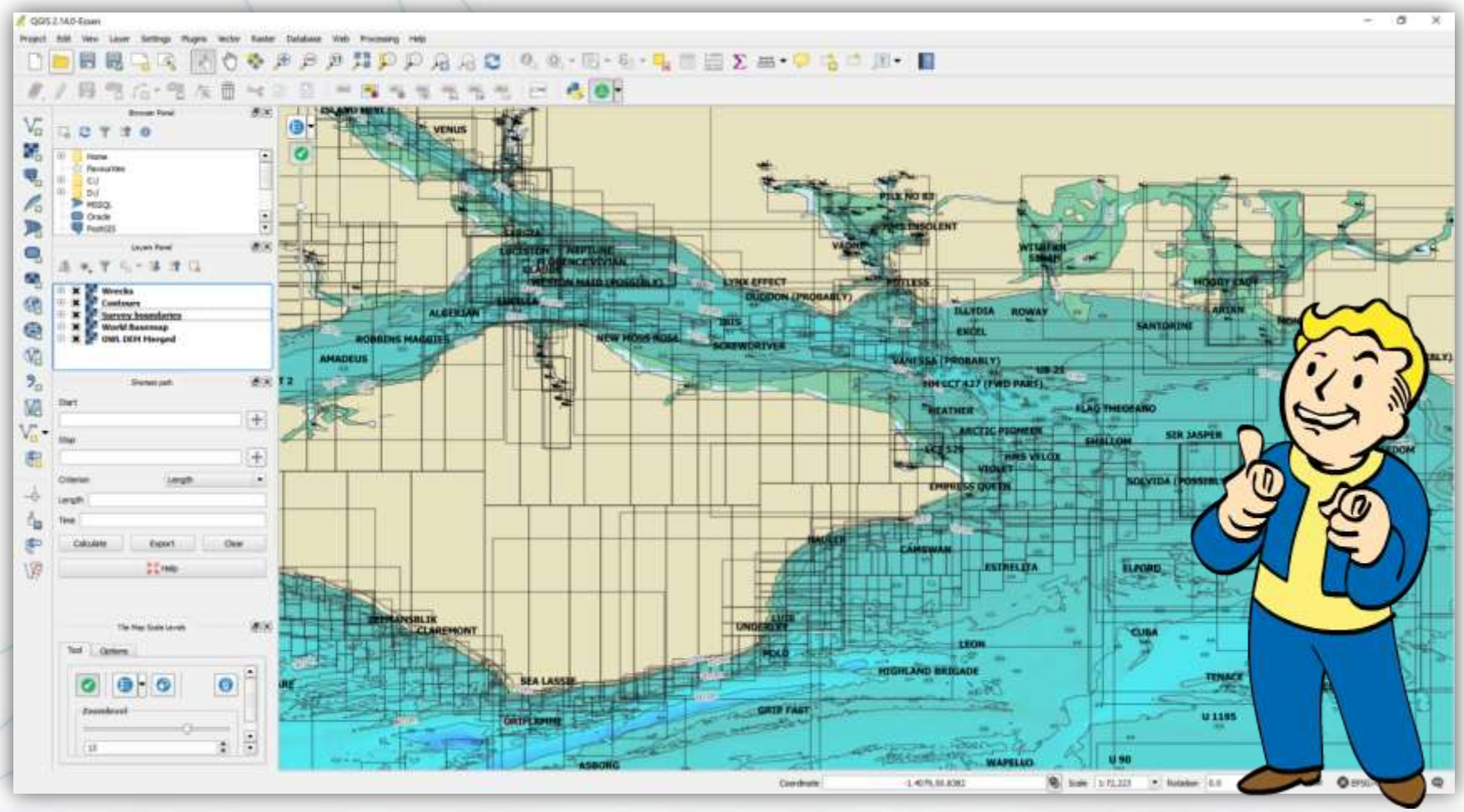
- Open Geospatial Consortium is a non profit committed to making quality open standards for the global geospatial community
- Some of their standards include GML and KML, XML file formats used to display and store geographic data

OGC®
Making location count.

OGC standards for web services

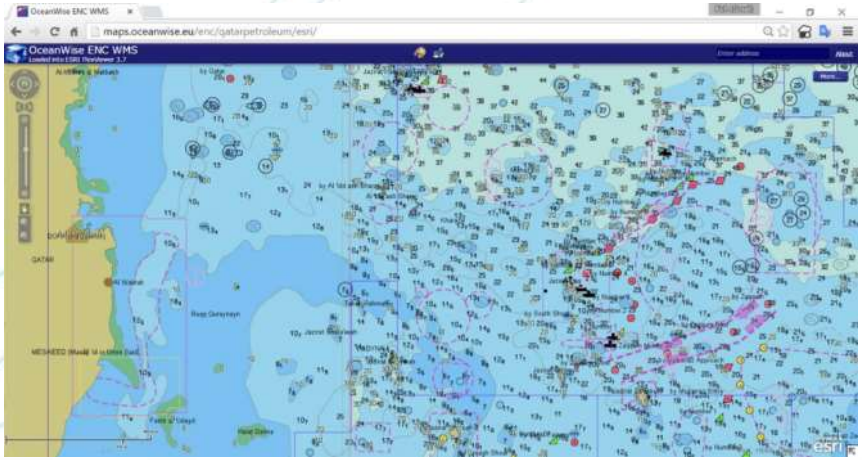
- TMS – file thrown on screen based on screen position (strictly not OGC but widely accepted)
- WMS/WMTS – georeferenced image based on vector or raster data
- WFS – vector data returned to screen as individual features
- WCS – raster data returned to screen in as many as four dimensions

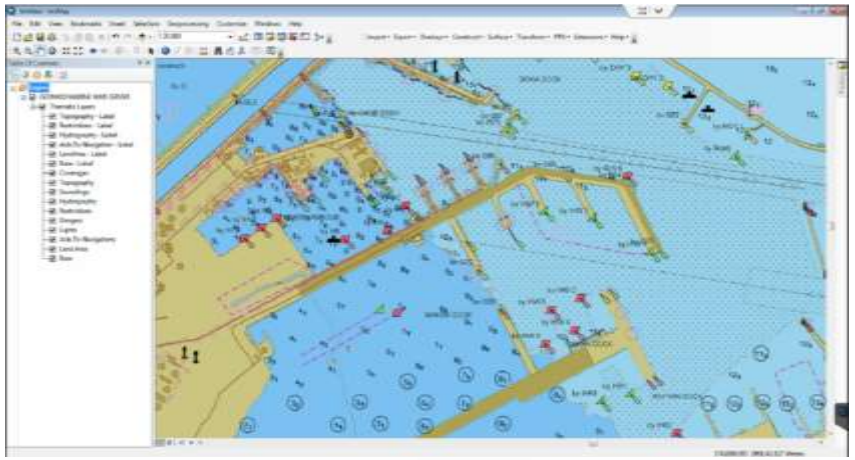
A WMS I've loaded



Reading encrypted ENCs

- Historically, marine data has been difficult to access overseas
- Our ENC WMS is able to read encrypted navigation products removing coverage limitations





OceanWise

End-to-End Marine and Coastal Data Management and Decision Support

Intelligent Marine and Coastal Mapping Data

Data Policy, Strategy and Management Systems

Enterprise GIS and Productivity Tools

Environmental Data Sharing and Publishing

Capacity Building, Training and Mentoring

www.oceanwise.eu

Independent • Experienced • Innovative • International • Trusted