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Title: Risk Management – a British (EA) Perspective

Name(s): Sam Nicholson & Krzysztof Dabrowski
Job title(s): Senior Advisor & Beaver Technical Specialist

Environment Agency

Who manages the water infrastructure in GB?

England

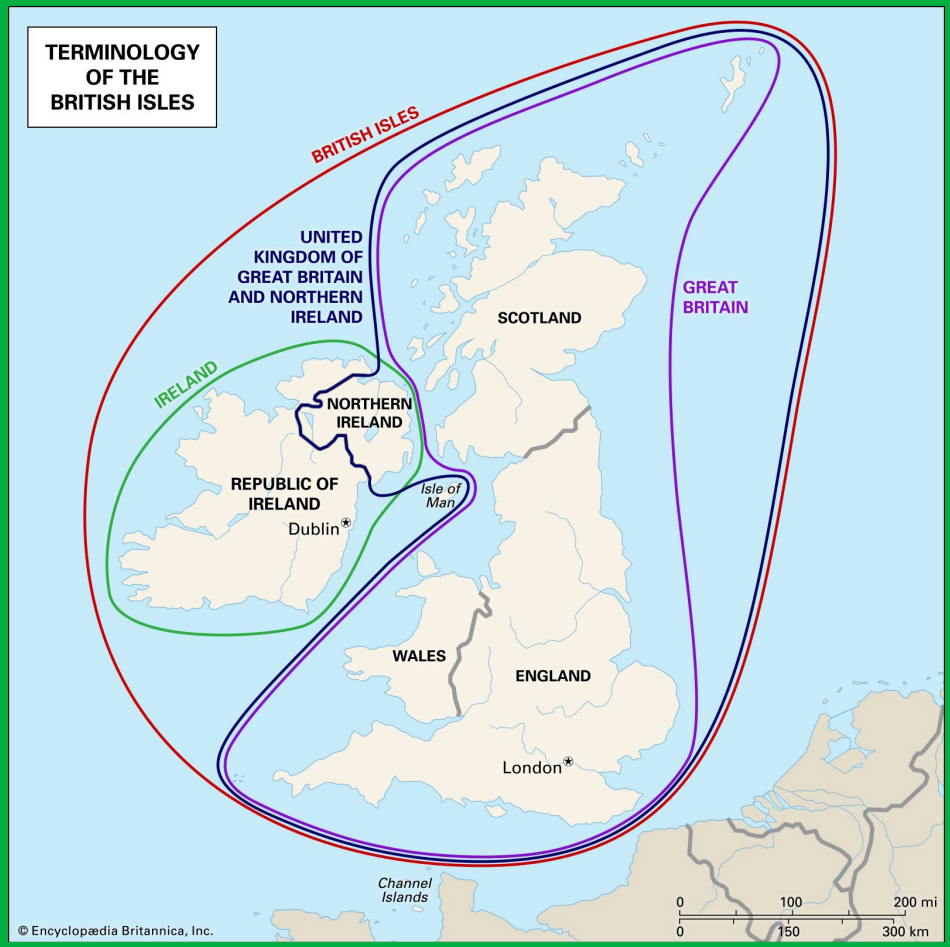
- Main rivers - Environment Agency
- Ordinary watercourses - local authorities & IDBs
- Others - water companies, Highways England, Network Rail

Scotland

- Rural context – landowners responsible for river and flood banks
- Communities with flood risk – Local authorities
- Scottish Environmental Protection Agency - Regulators and strategic flood risk management
- Others - Scottish Water, SSE (hydro), Network Rail, Transport Scotland or local authorities (roads)

Wales

- Natural Resources Wales
- Local Authority



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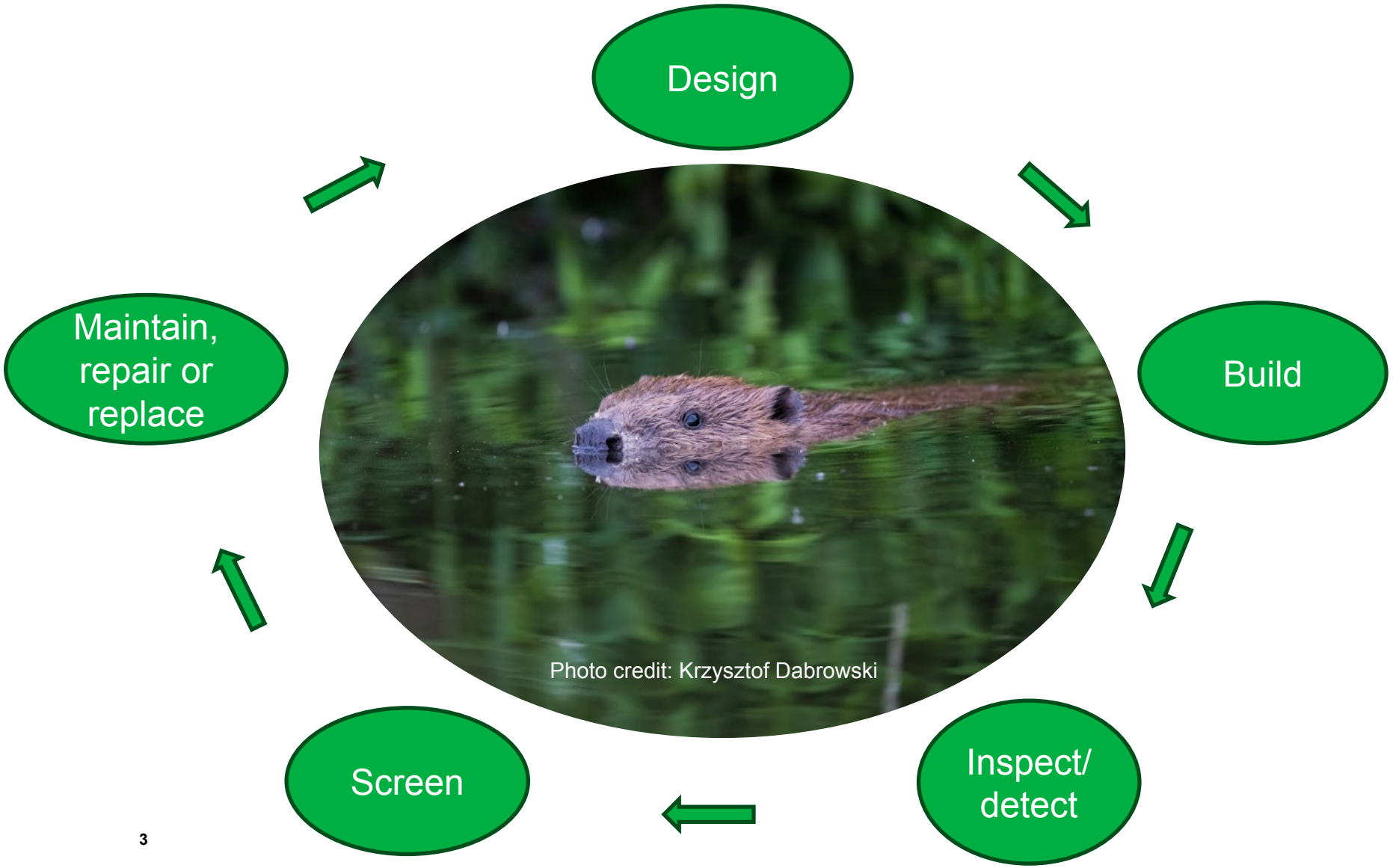
Asset management approach



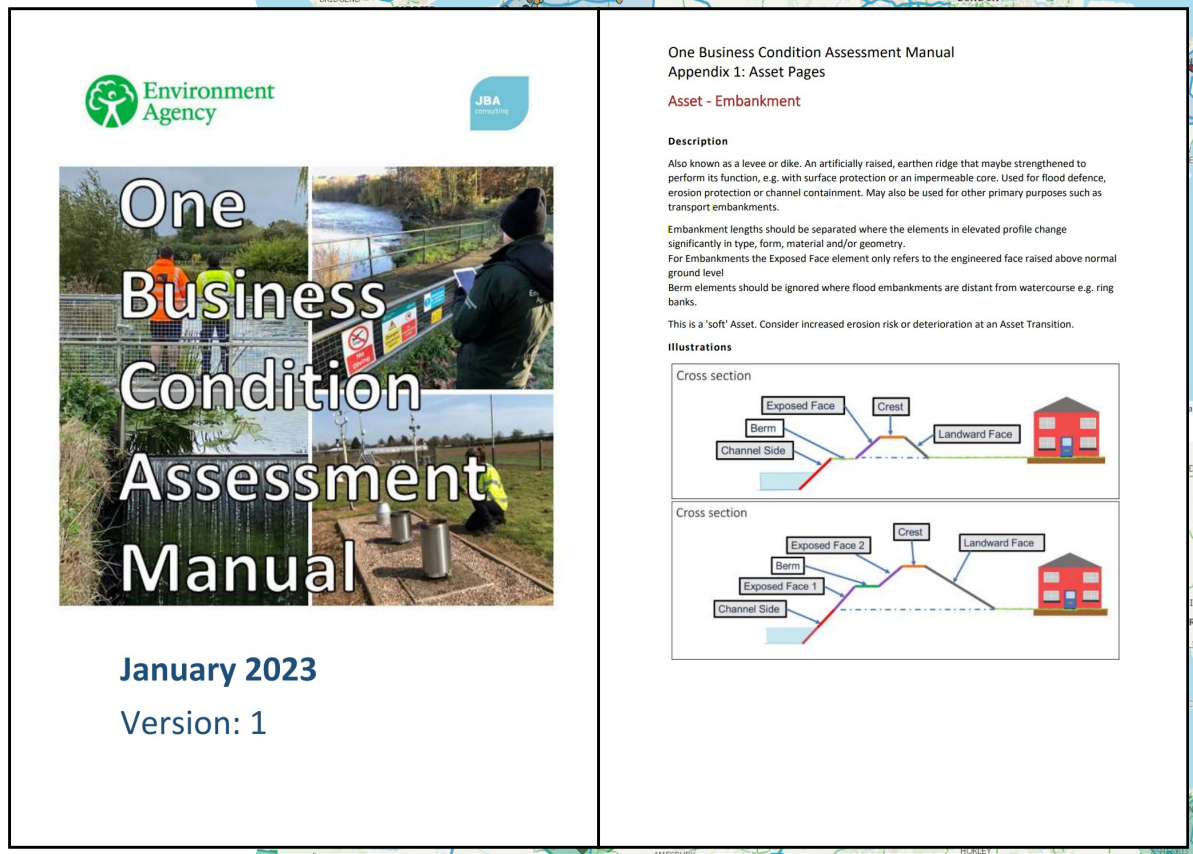
Understanding the different risks at the different stages

Proportionate & appropriate response

Risk management approaches

EA assessment methodology created for:

- Maintenance programme
- Capital programme
- Asset by asset ‘vulnerability’



Asset vulnerability assessment

Chosen assets

- Embankments
- Debris screens
- Culverts
- Gauging stations

Asset vulnerability assessment

Data sources and tools

Easimap

- Limited data and often poor quality (missing data)
- Limited functions but easy to use

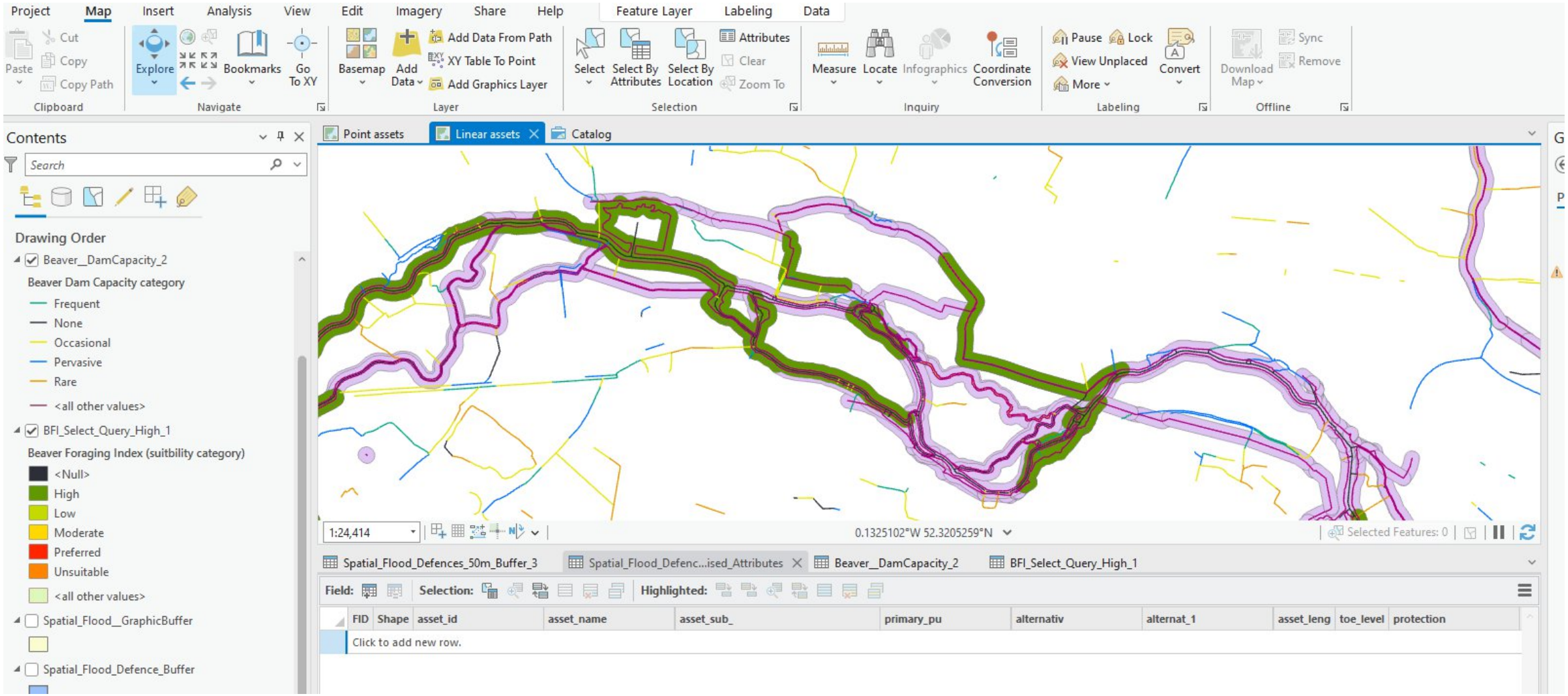
AIMS (Asset Inventory Management System)

- Not all areas use the system the same

SEAL (Surveillance of Embankment Assets with LIDAR)

- Doesn't have width data, needs to be processed
- Polygon of embankments, available in ~6 months

Highlight embankment BFI



Developing guidance for all RMAs

Beaver manual of engineering techniques

- To avoid ad-hoc and disjointed guidance and develop inconsistent engineering techniques
- Support risk management authorities and the wider engineering community
- Reduce the risk of ‘heavy-handed’ hard engineering being implemented as standard
- Encourage soft engineering or setting back assets to give space for the river and beavers
- **Working with international colleagues… you!**

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How we learn, share and embed

- English National Beaver Management Forum - infrastructure subgroup
- Scottish Beaver Advisory Group - Beaver mitigation subgroup.
- International website + UK Beaver Management website
- Beaver Management Groups / Beaver Practitioner Group

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Questions?

Send us an email

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