



# Challenges in map document management

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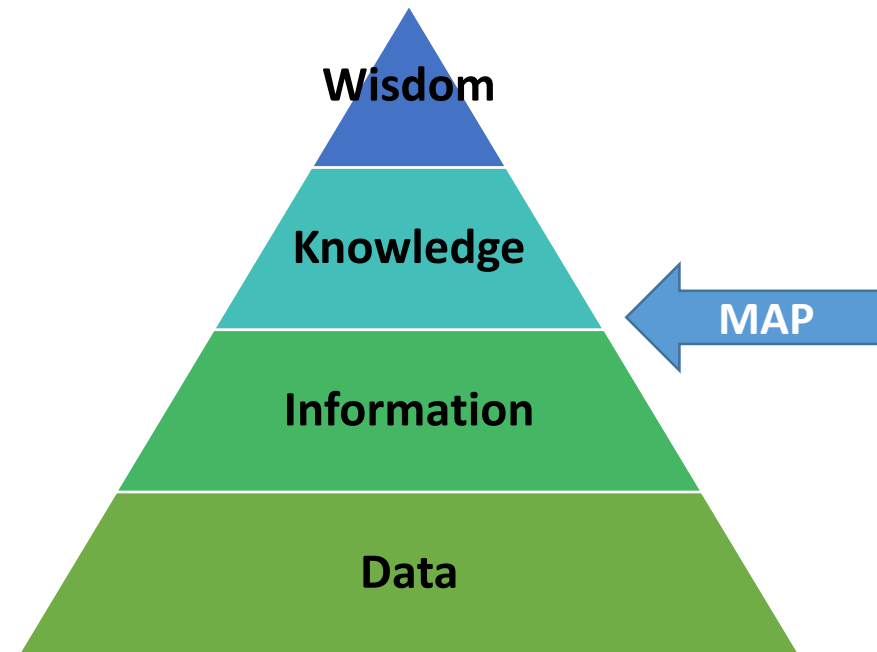
[www.gxmaps.com](http://www.gxmaps.com)

# Overview

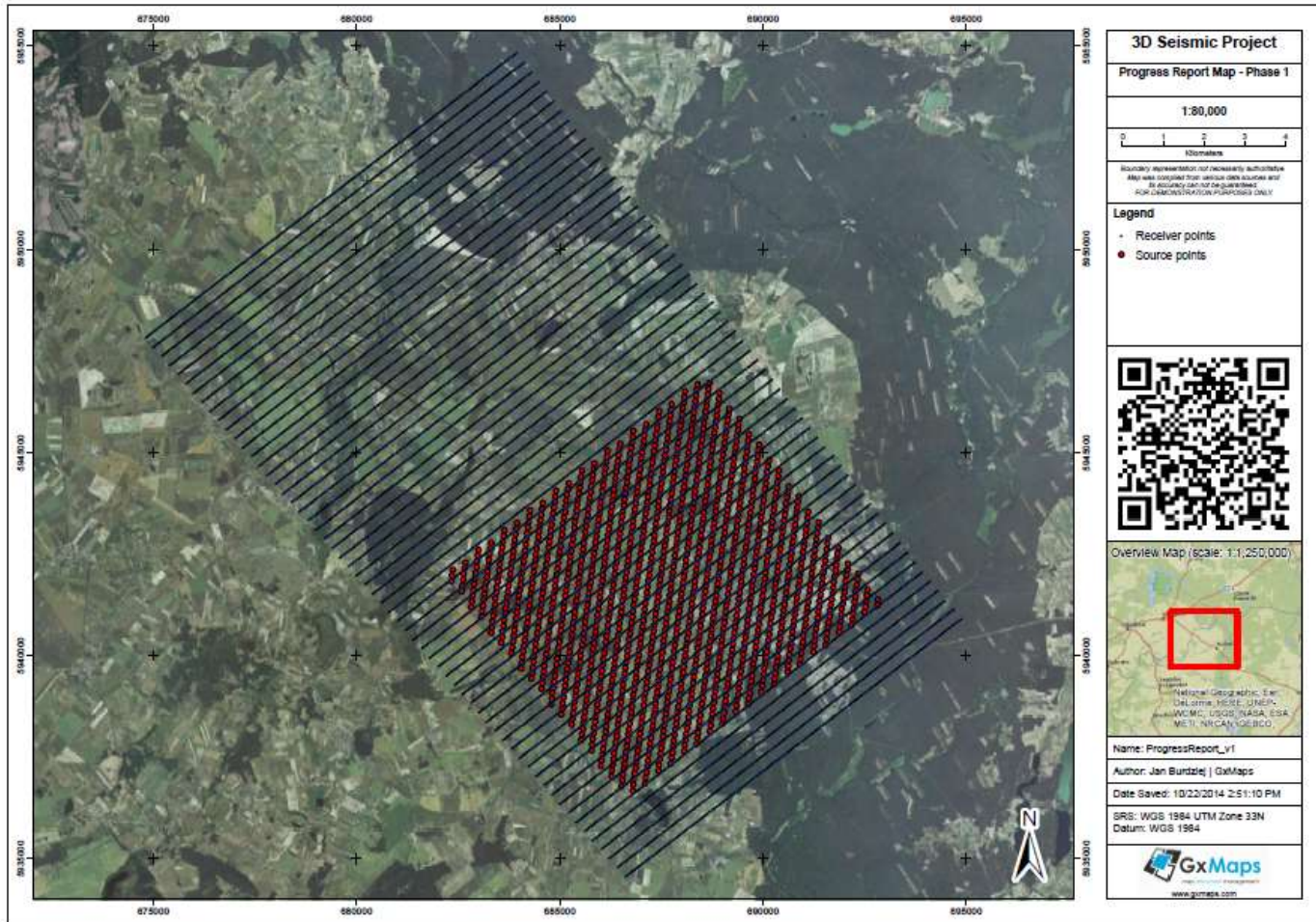
- Role of Maps in E&P
- Map Documents vs Web Maps
- Map life cycle
- Map versioning and management
- Summary

# Role of Maps in E&P

- Summarised and comprehensive view on a given subject
- Mean of communicating spatial information
- Key role in building knowledge
- Used for decision-making
- Map documents need to be controlled and managed similarly to databases



# Map Documents



# Map Documents vs Web Maps

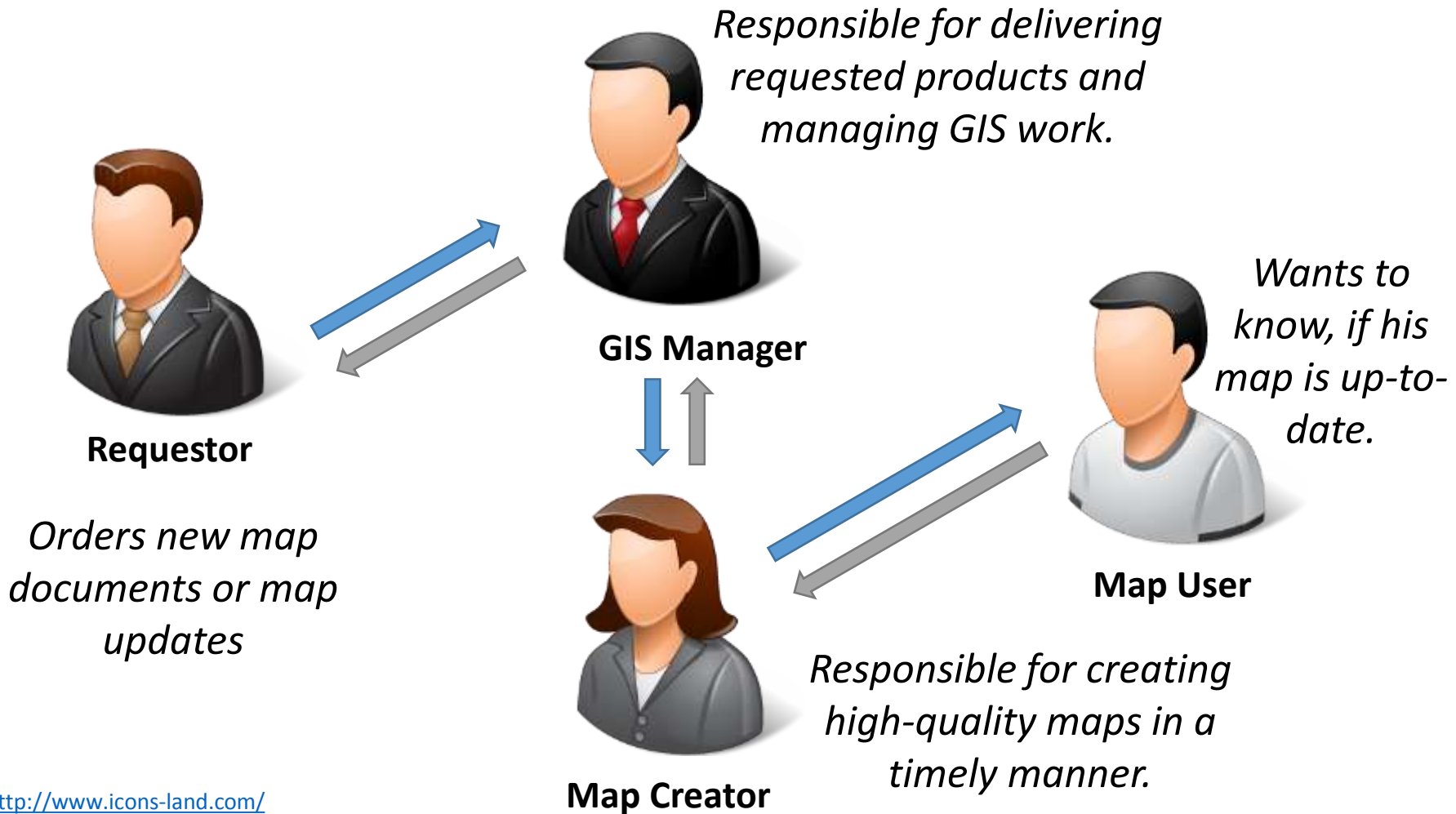
## Map Documents

- Official document, author, QC
- Fixed extent, scale and content
- Fixed symbology, labeling, legend, coordinate system
- Access restricted by a security level, physical access
- Often delivered as a hardcopy / PDF / jpg
- Released in revisions

## Web Maps

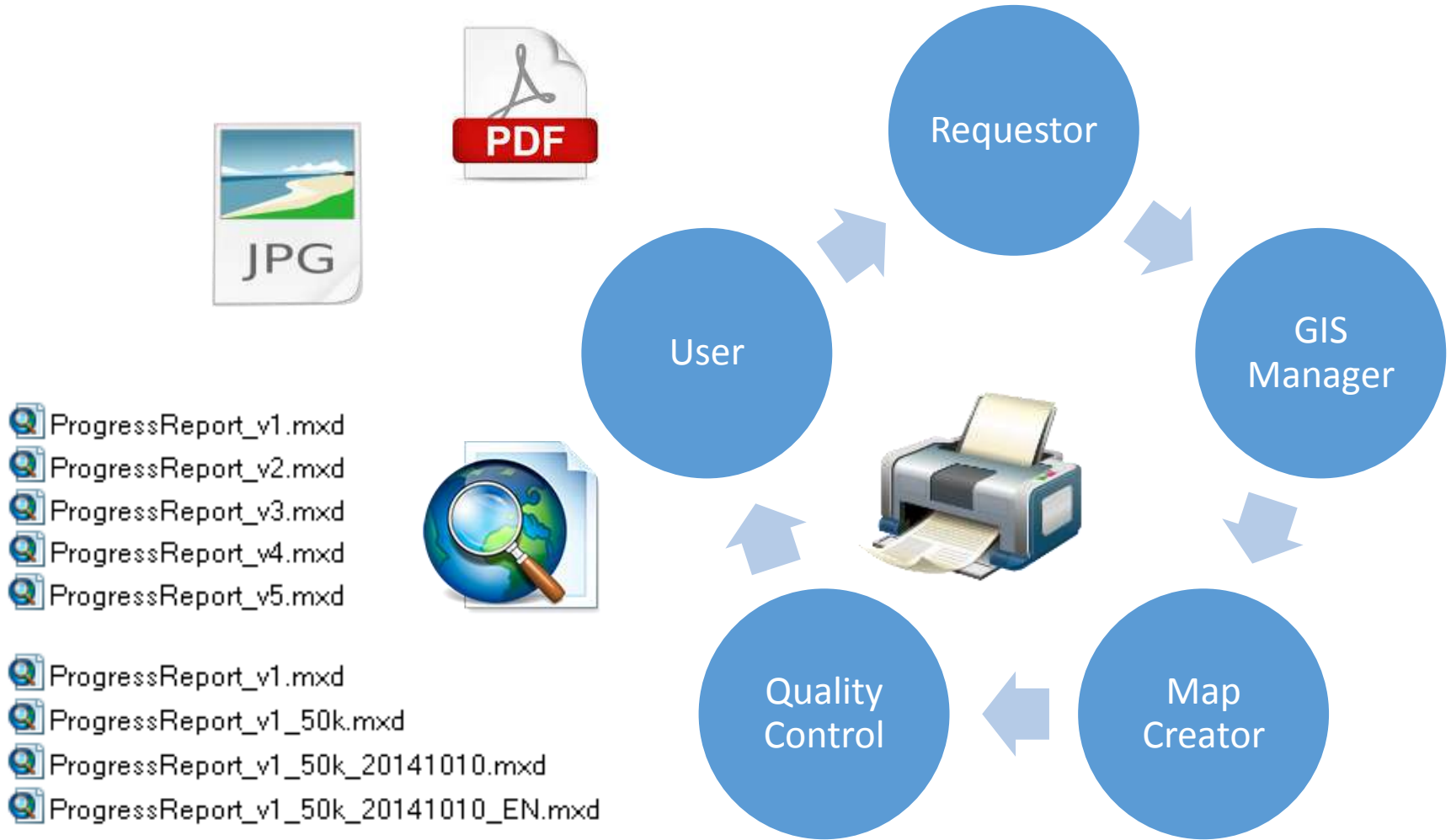
- Multiple co-authors, (semi)automated visualization
- Flexible extent, scale, content
- Typically WGS 84
- Access restricted by IT permissions (password, IP...)
- Delivered as a geoportal or a web service (WMS)
- May be constantly updated

# Map Document Lifecycle



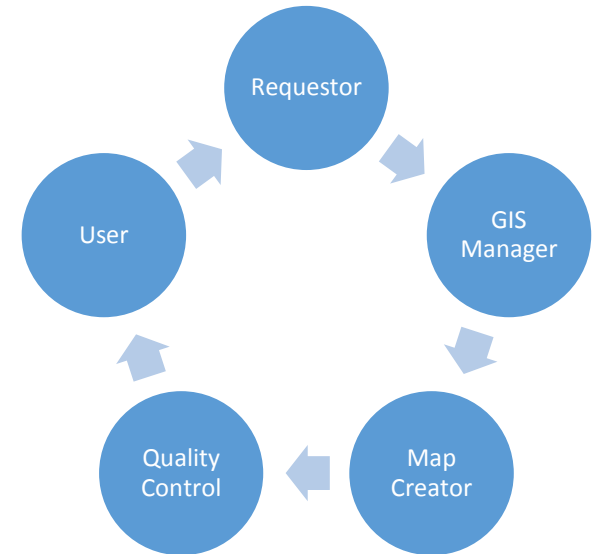
Icons: <http://www.icons-land.com/>

# Map Document Lifecycle



# Map Document Lifecycle Control

- Who requested a map?
- What exactly has been requested?
- When it is required?
- Who has taken up a request?
- When the map is ready?
- How the final map can be accessed?
- How maps are used after they are created?





# Management & Reporting

**GIS office management is a challenging task: it serves multiple clients both within and outside the immediate organization.**

- Monitoring and reporting GIS workload
- Map document version control
- Finding archived maps (e.g. for a given area or for a given project, scale)
- Integrated map repositories



**Director**



**GIS Manager**

# Quality Assurance

- Major time critical decisions in organisations are often made based on outdated and/or unverified geospatial information and maps.
- This exposes the organisation to increased risk, particularly with respect to reputation, finance, health, safety and the environment.
- QC Checklists...



# Problem



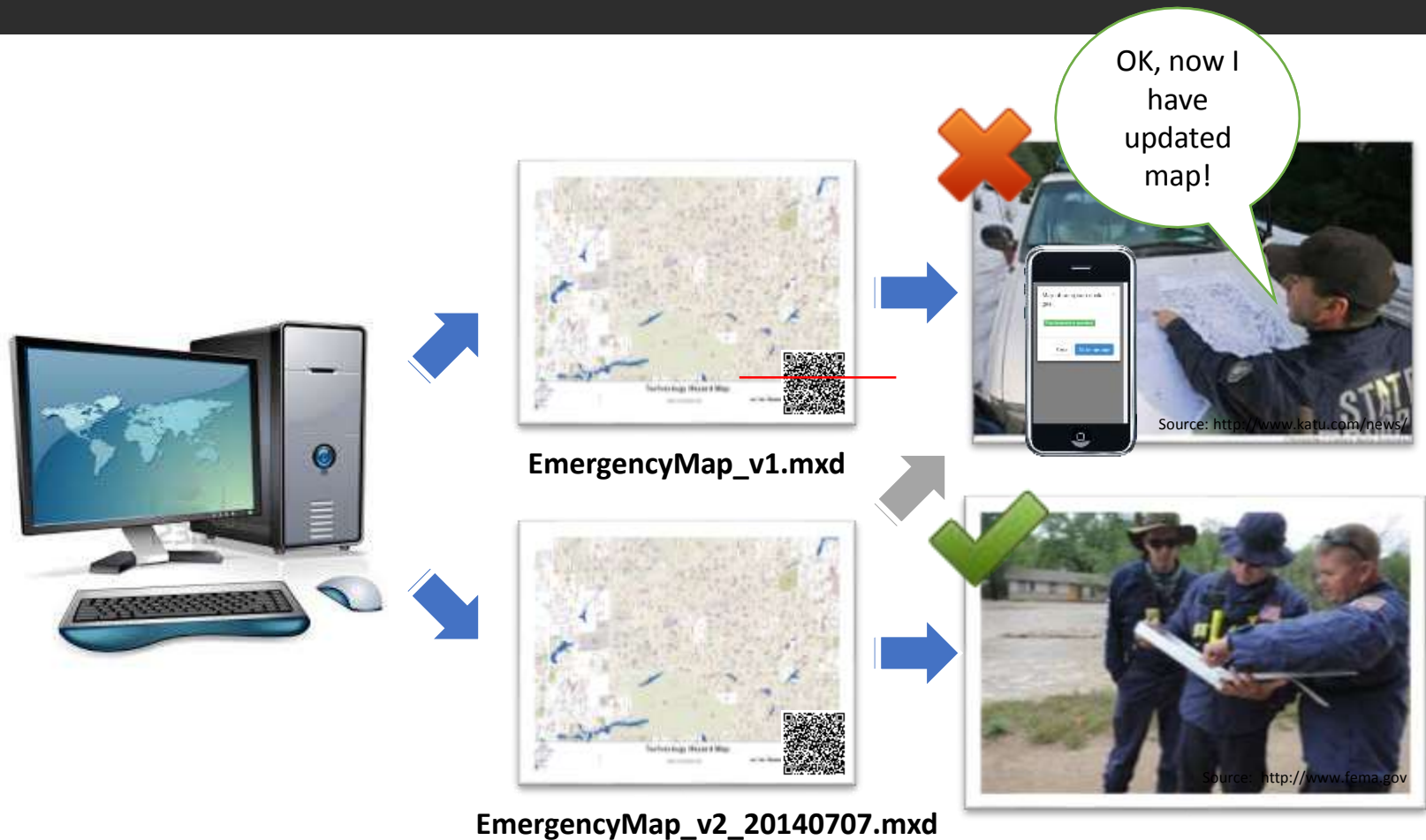
EmergencyMap\_v1.mxd



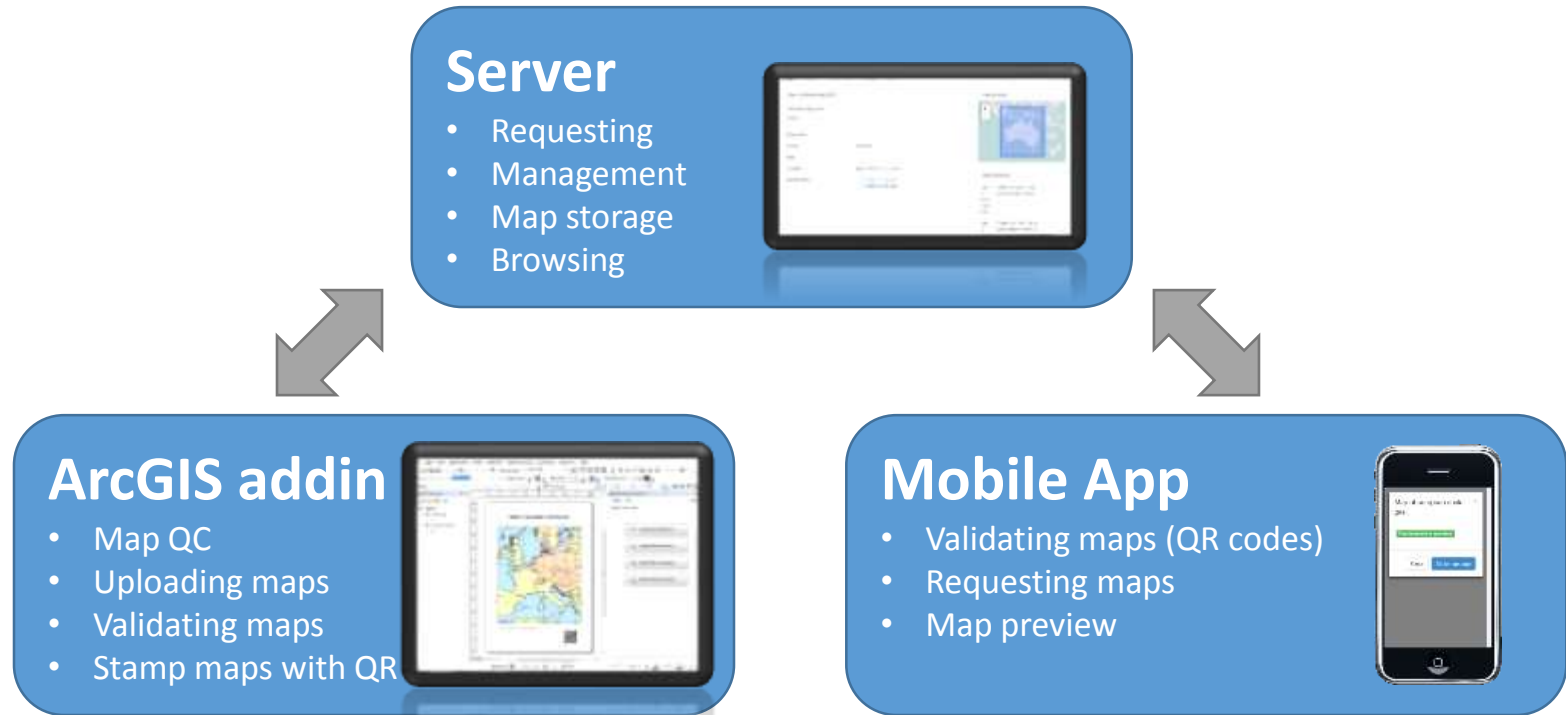
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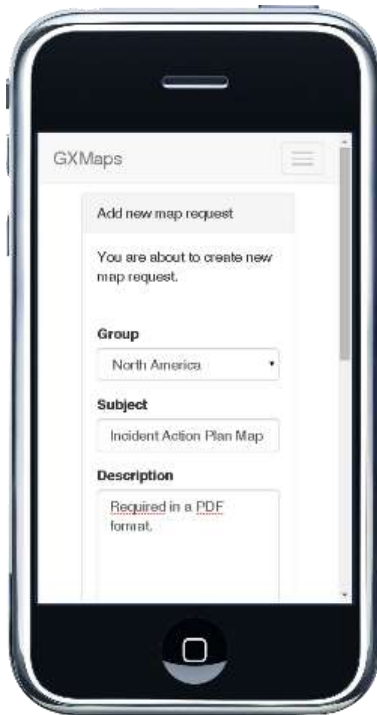
# Proposed solution



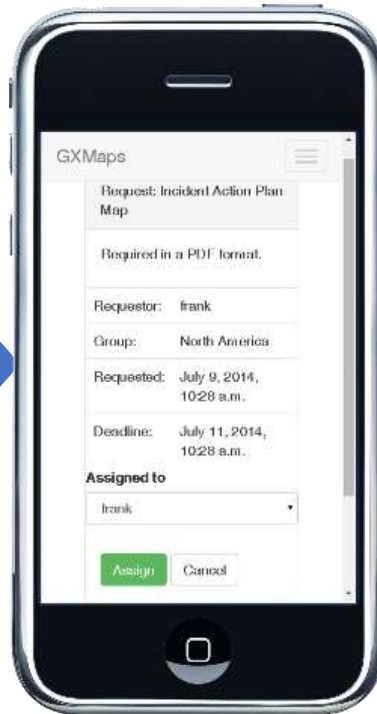
# Architecture



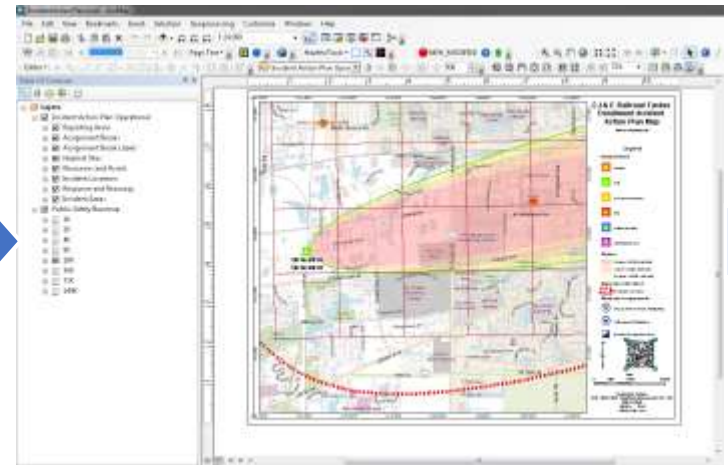
# Sample scenario...



Requestor



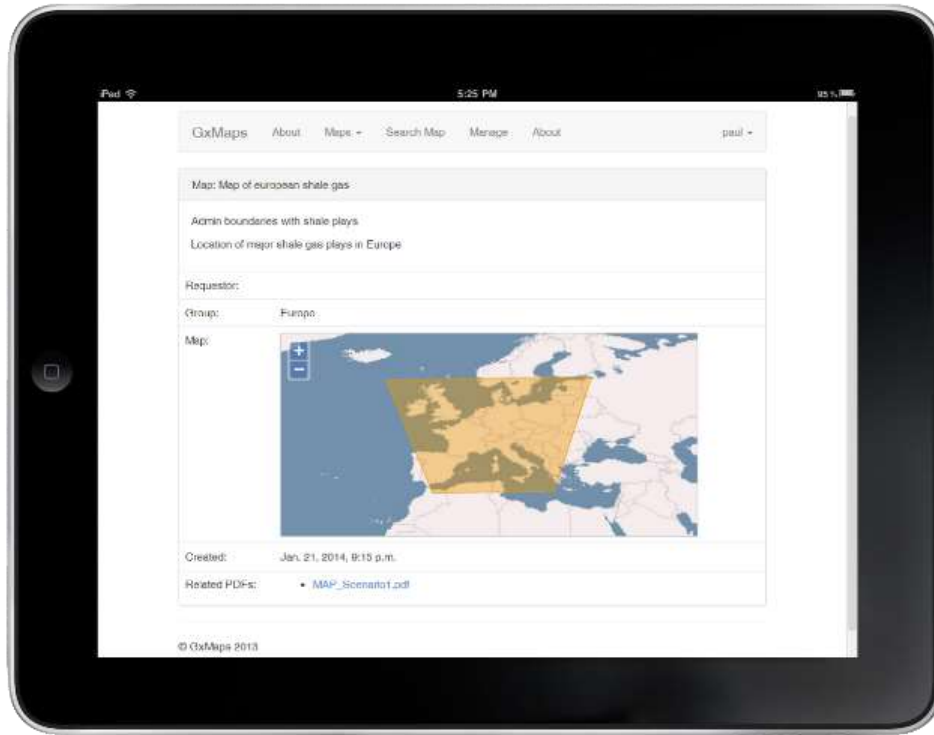
Manager



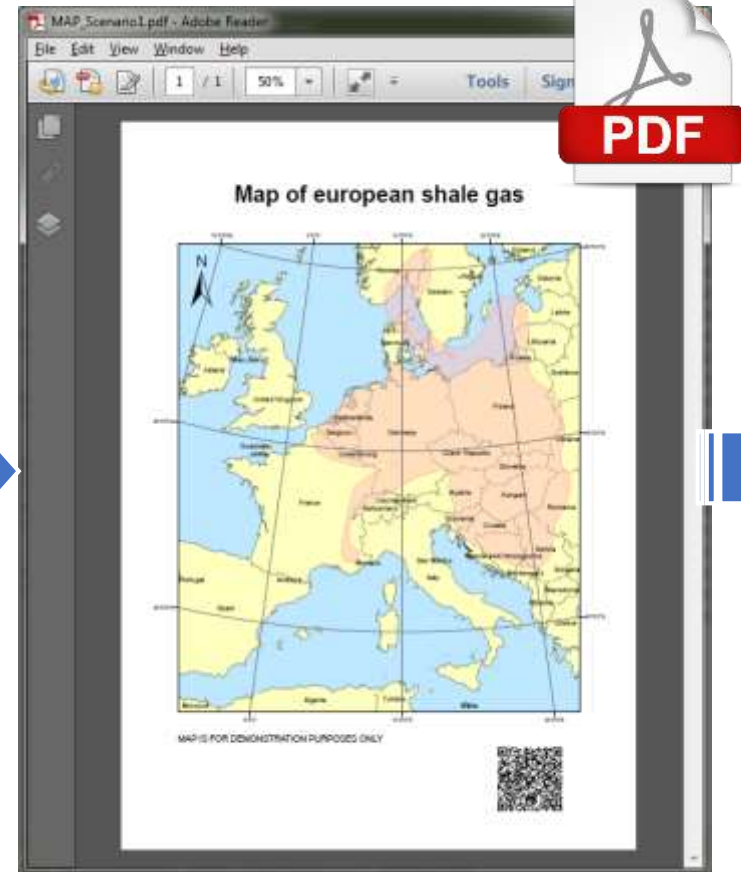
Map Creator



# Sample scenario...



Requestor



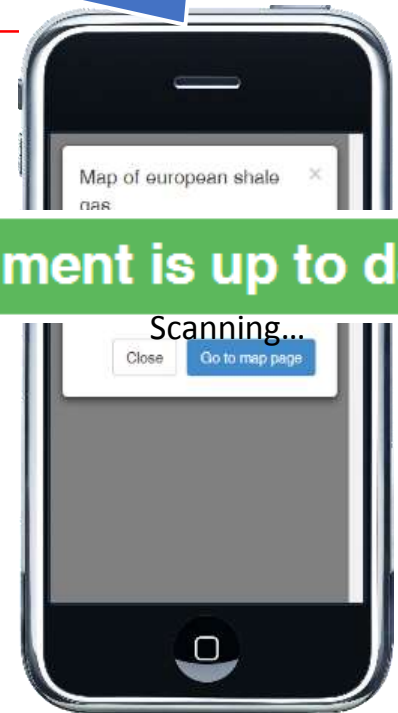
# Sample scenario...



Board Meeting



Your document is up to date.



Future Users...



# Map Document Challenges – summary

- Control over map lifecycle
  - Map requests, creation and delivery
  - Hardcopy map documents
  - Time-critical situations...
- ArcMap documents versioning
  - Problem with naming map files (e.g. Map\_final2.mxd)
  - Problem with returning to a given revision
- Browsing and searching for specific map documents
  - Information sharing within organization
  - Find map by creator, date, scale, group, keywords, spatial extent...
  - Duplicated maps, extra time and money spent on searching for documents



# Thank you!

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