



Sustainability and future of INSPIRE infrastructure components

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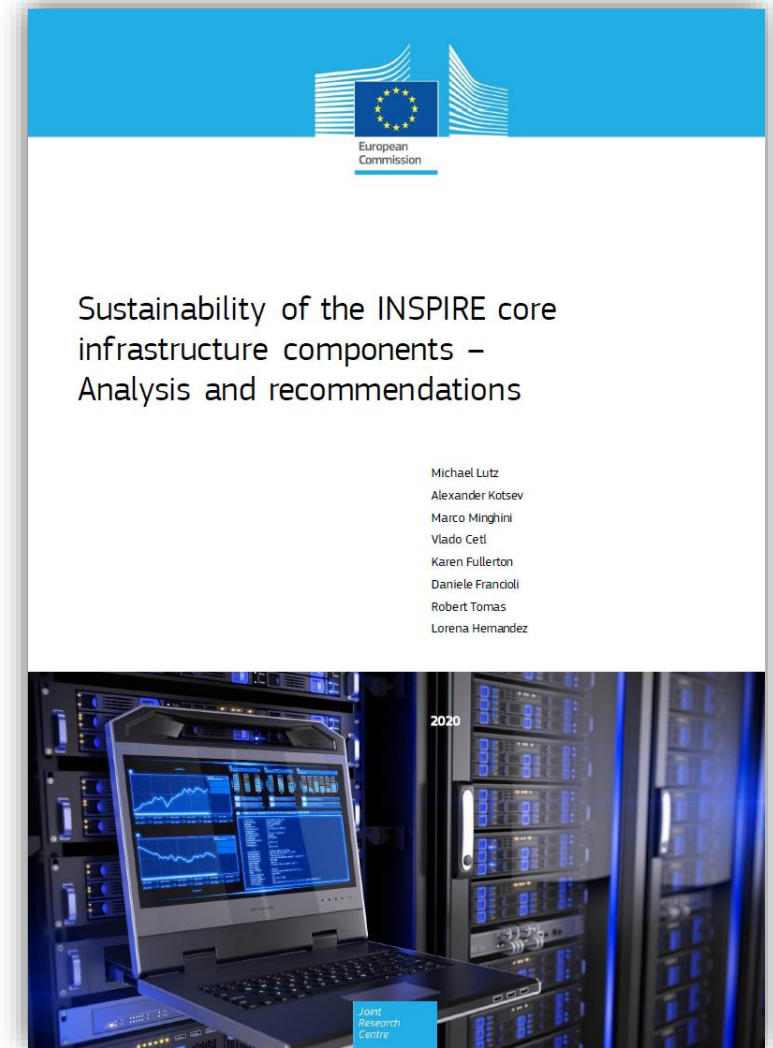
INSPIRE Community Forum Webinar



ICF Workshop, 11/12/2020

Context

- Tools deliver in accordance with expectations
- Maturing technology fit for purpose
- Improved dialogue with MS
 - Transparent predefined release cycle
 - Updated documentation of the tools
- However
 - Created in different periods with different bounding conditions
 - Different technologies
 - Rooted into the infrastructure of the JRC
 - All this introduces additional costs and difficult to maintain



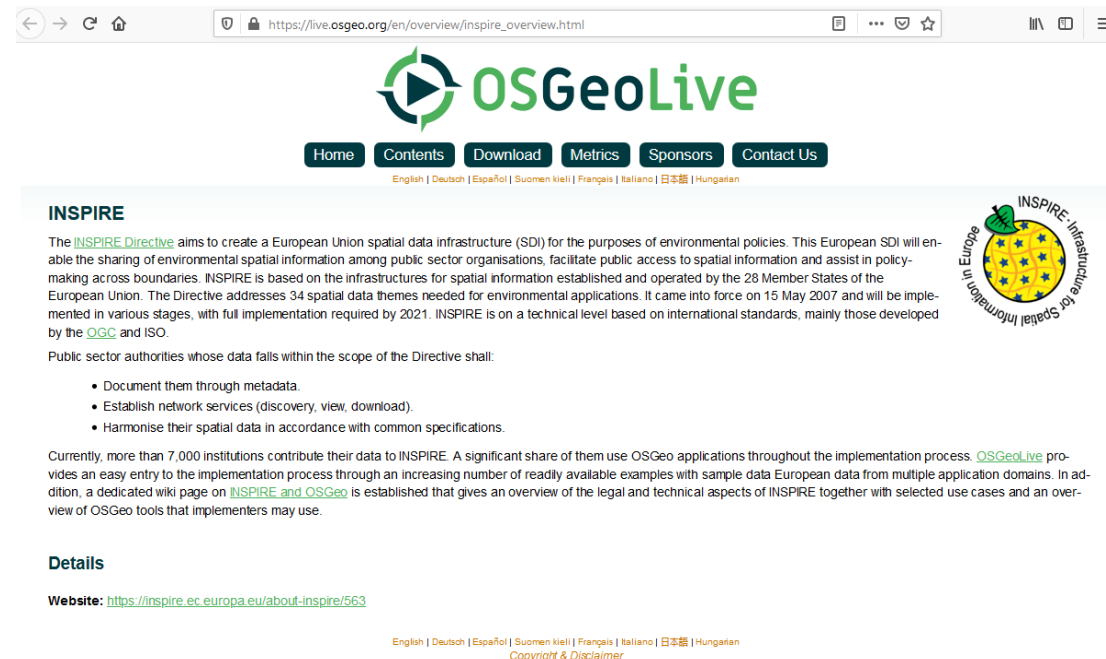
How to ensure the sustainability of components?

1. Build strategic partnerships with communities
2. Use of mainstream technology
3. Harmonise the approaches for helpdesk
4. Decouple tools from infrastructure



1. Strategic partnerships

- Establish a governance structure with shared responsibilities
 - Users, providers, software projects, open-source communities, standardisation bodies, Commission services
- Facilitated by open-source licensing (EUPL)
- **Example:** Re3gistry to be made available in OSGeo-Live
 - Live bundle of open source software (vmdk, etc.)
 - To be released on 31 January 2021
 - Translation sprint planned for 17th of December



The screenshot shows a web browser displaying the OSGeoLive website. The URL in the address bar is https://live.osgeo.org/en/overview/inspire_overview.html. The page features the OSGeoLive logo at the top, followed by navigation buttons for Home, Contents, Download, Metrics, Sponsors, and Contact Us. Below this is a language selection menu with options for English, Deutsch, Español, Suomen kieli, Français, Italiano, 日本語, and Hungarian. The main content area is titled "INSPIRE" and contains text about the INSPIRE Directive, its purpose, and implementation. A list of public sector authorities is provided, along with a link to a dedicated wiki page. The page also includes a "Details" section and a "Website" link.

INSPIRE

The [INSPIRE Directive](#) aims to create a European Union spatial data infrastructure (SDI) for the purposes of environmental policies. This European SDI will enable the sharing of environmental spatial information among public sector organisations, facilitate public access to spatial information and assist in policy-making across boundaries. INSPIRE is based on the infrastructures for spatial information established and operated by the 28 Member States of the European Union. The Directive addresses 34 spatial data themes needed for environmental applications. It came into force on 15 May 2007 and will be implemented in various stages, with full implementation required by 2021. INSPIRE is on a technical level based on international standards, mainly those developed by the [OGC](#) and ISO.

Public sector authorities whose data falls within the scope of the Directive shall:

- Document them through metadata.
- Establish network services (discovery, view, download).
- Harmonise their spatial data in accordance with common specifications.

Currently, more than 7,000 institutions contribute their data to INSPIRE. A significant share of them use OSGeo applications throughout the implementation process. [OSGeoLive](#) provides an easy entry to the implementation process through an increasing number of readily available examples with sample data European data from multiple application domains. In addition, a dedicated wiki page on [INSPIRE and OSGeo](#) is established that gives an overview of the legal and technical aspects of INSPIRE together with selected use cases and an overview of OSGeo tools that implementers may use.

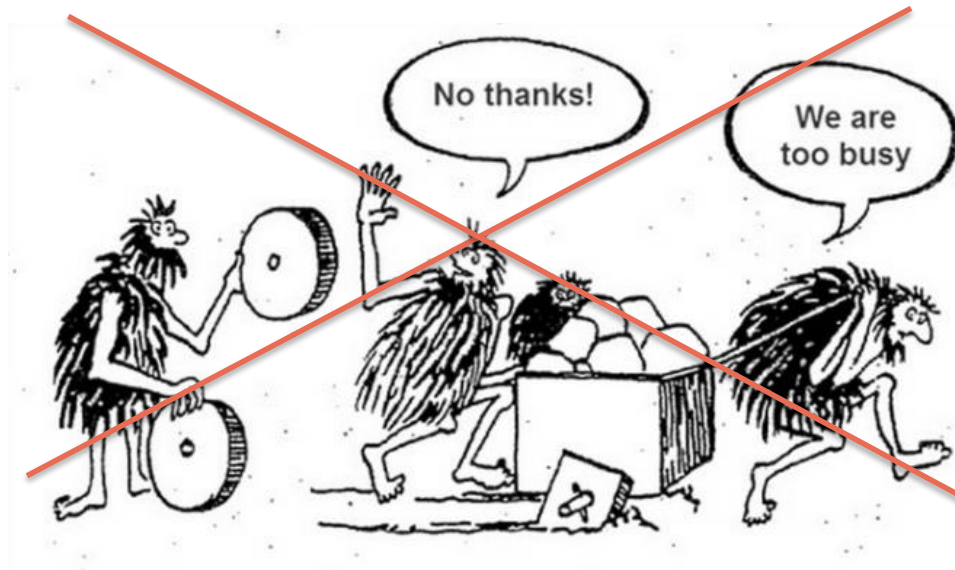
Details

Website: <https://inspire.ec.europa.eu/about-inspire/563>

English | Deutsch | Español | Suomen kieli | Français | Italiano | 日本語 | Hungarian
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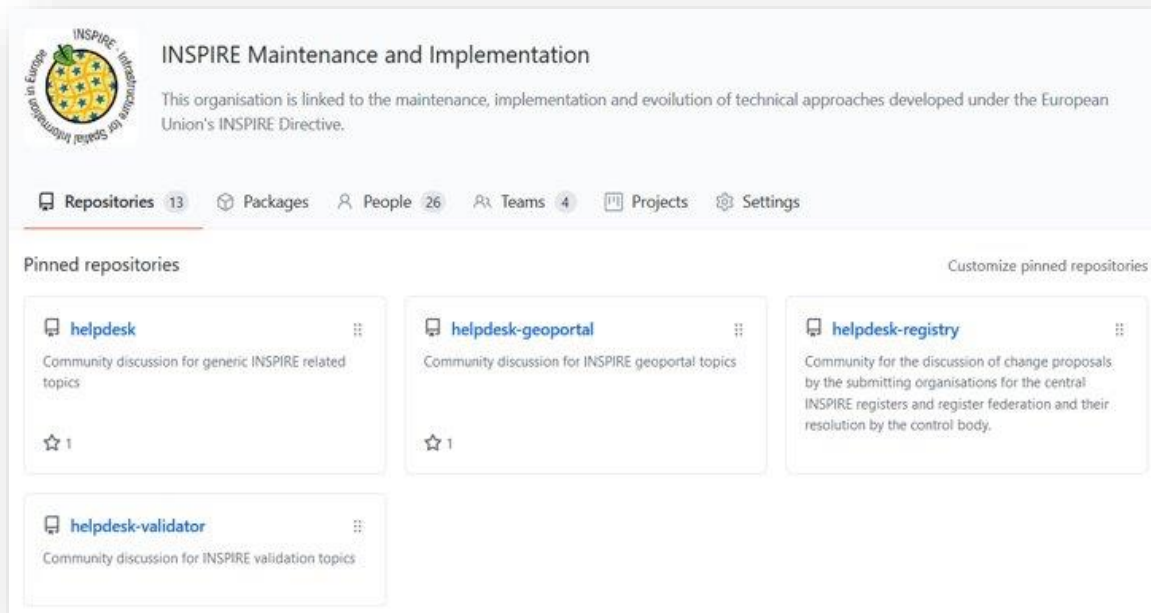
2. Reuse of mainstream tools

- Focus on the INSPIRE-specificity and not on mainstream tool development
- Not to reinvent the wheel
- **Example:** GeoNetwork as Geoportal backend (tbd)
 - Promising preliminary tests with GeoNetwork v.4
 - New study in the pipeline
 - Possibly substitute the existing custom backend

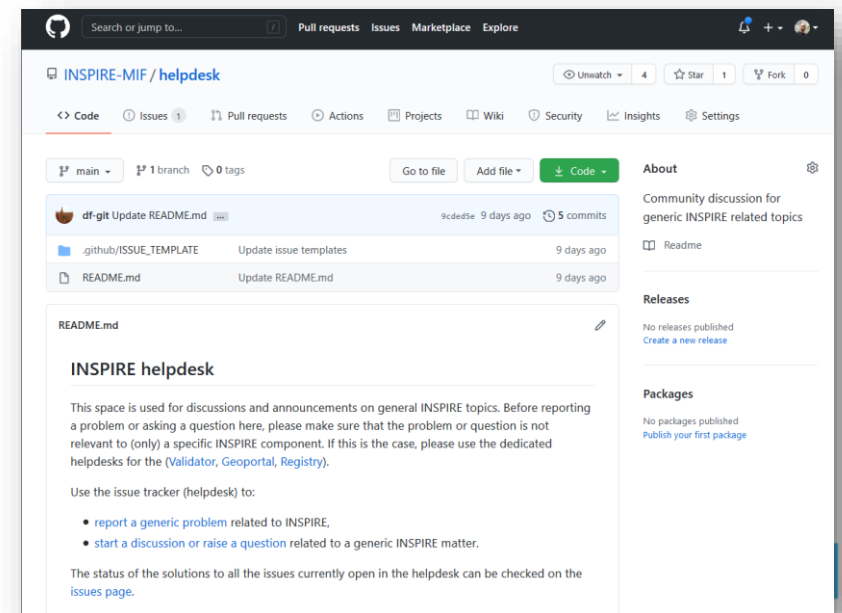


3. Harmonise the approaches for helpdesk

- All helpdesks moved to a single GitHub organisation
 - <https://github.com/INSPIRE-MIF>
- Different repositories for tool-specific helpdesks + a general helpdesk (partially replacing the Community Forum)
- Common approach for all (issue templates, labels, etc.)



The screenshot shows the GitHub organization page for "INSPIRE Maintenance and Implementation". The header includes the organization's logo and a description: "This organisation is linked to the maintenance, implementation and evolution of technical approaches developed under the European Union's INSPIRE Directive." Below the header, there are navigation tabs for "Repositories" (13), "Packages", "People" (26), "Teams" (4), "Projects", and "Settings". The "Pinned repositories" section displays three repositories: "helpdesk" (Community discussion for generic INSPIRE related topics), "helpdesk-geoportal" (Community discussion for INSPIRE geoportal topics), and "helpdesk-registry" (Community for the discussion of change proposals by the submitting organisations for the central INSPIRE registers and register federation and their resolution by the control body). A fourth repository, "helpdesk-validator", is partially visible at the bottom.



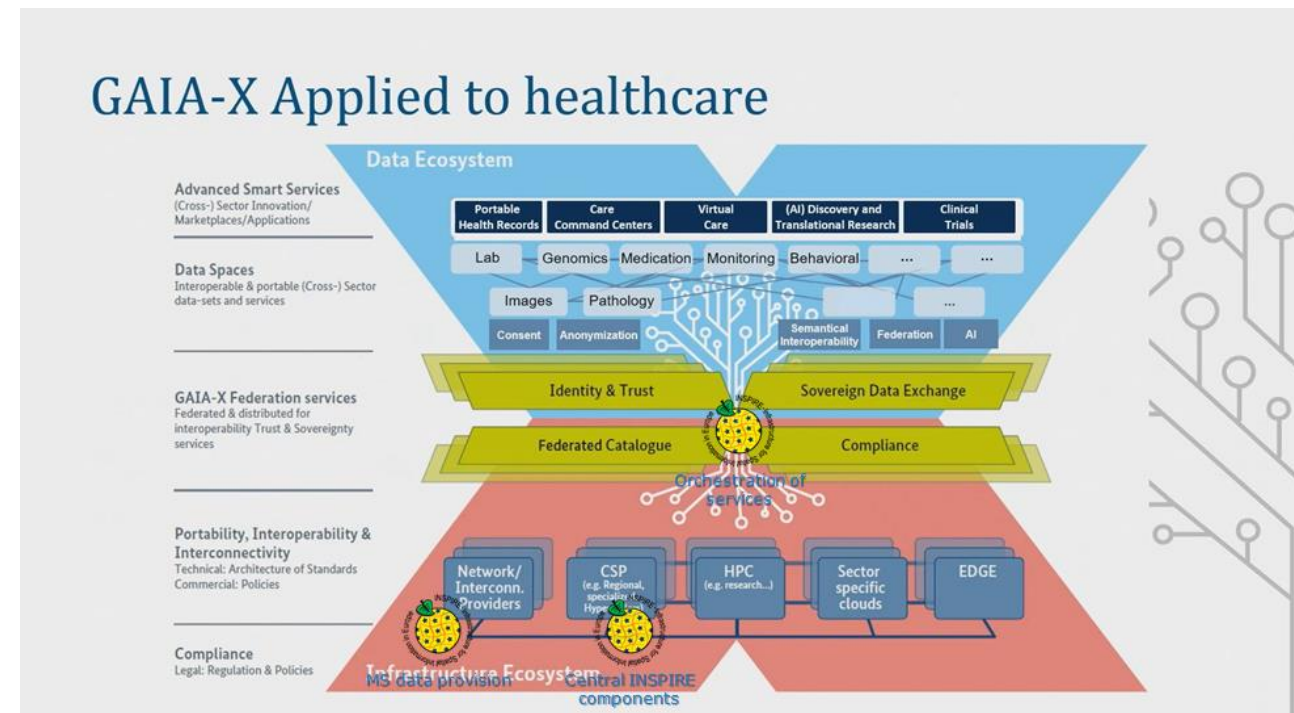
The screenshot shows the GitHub repository page for "INSPIRE-MIF/helpdesk". The page header includes the repository name and navigation options like "Code", "Issues" (1), "Pull requests", "Actions", "Projects", "Wiki", "Security", "Insights", and "Settings". Below the header, there are tabs for "main" (1 branch) and "0 tags". A table of recent commits is visible, showing updates to "README.md" and ".github/ISSUE_TEMPLATE". The "About" section describes the repository as a "Community discussion for generic INSPIRE related topics" and includes a "Readme" link. The "Releases" section indicates "No releases published" and provides a link to "Create a new release". The "Packages" section also indicates "No packages published" and provides a link to "Publish your first package". The main content area displays the "README.md" file, which contains instructions for using the issue tracker and reporting problems.

4. Decouple tools from infrastructure

- Extensive use of the cloud for sustaining the tools
- Benefits
 - Scalability
 - Security
 - Non-INSPIRE specific components (e.g. authentication, user management)

GAIA-X workshop

- Planned for Q.1



Thank you



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