

Intro

THE AIM OF THIS PAPER

"to acknowledge the interplay between citizen and place, for both expert knowledge and User Generated Content"

THE ISSUES OF INTEREST

- How users access expert knowledge
- How users generate knowledge they can contribute to community archives
- How users access each others content in the archive

REVISITING PRIOR RESEARCH

- How users interact with and experience their urban environment
- Use of ad-hoc mobile apps to provide augmented reality triggered geospatially relevant knowledge content: video, audio, images, text
- The potential for engagement, motivation and value to facilitate incidental learning



Context of prior research

Locations, apps & activities

- Two smart learning journeys: London, UK and Valletta, Malta.
- A HP Reveal to provide an AR interactive interface of choices
- Links to video, audio, webpages and image searches

People

- Three groups of students from two universities (LondonMet and Uni of Malta)
- Undergrad & postgrad
- Multinational
- ▲ Aged 20-35

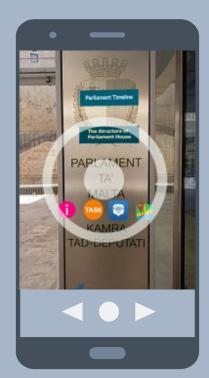


Mobile app AR

Urban digital interactions access knowledge related to place

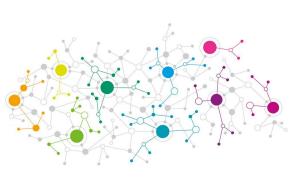
Using AR to trigger content in place

Displaying content choices for video images or webpages to learn about the city heritage









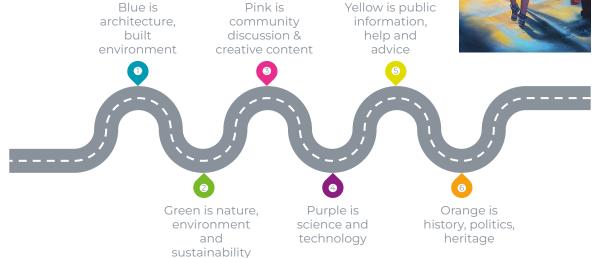
Img from ECP/Linked Spatial Data in Europe

Digital urban place locations offer content opportunities:

- Expert Community Civic

Users interact: Find expert knowledge Create own content



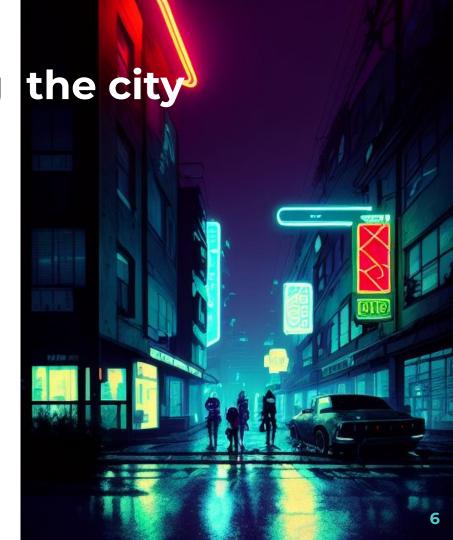


Reading and writing the city

... a way of describing how citizens read and contribute knowledge content related to urban places...

... reading about science, buildings, literature, art or heritage

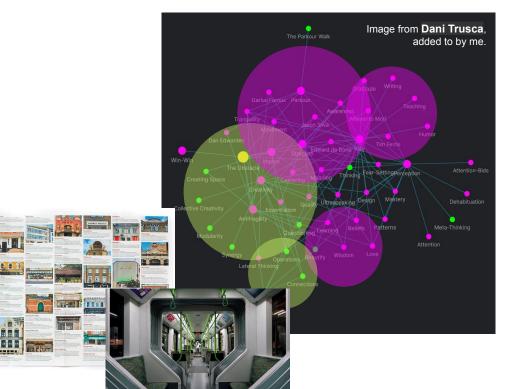
... and then **contributing to a community archive** of citizen memoir and lived experience about those places - and also reading what others say.



Knowledge, content and culture

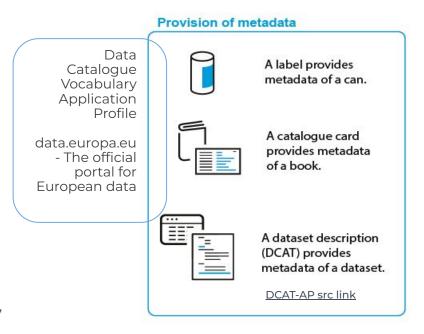
WHAT KIND OF KNOWLEDGE?

- Temporary or permanent structures
- Repositories and Searchable archives
- Backlinked networks of knowledge
- Expert knowledge science, design, architecture literature, art, heritage
- User-generated memories, reflections, artistic, literary, cultural creations. Eg:
 - Hackney Typography Maps <u>https://bluecrowmedia.com/products/hackney-type-map</u>
 - London Tube Mapper <u>https://mastodon.social/@tubemapper@</u> mastodonapp.uk



Metadata for findability

- Metadata > describing the content and linking datasets
 - Linked Open Data
 - Open Access
 - OER
 - Citizen archives
 - Open Graph / DC / Schema
 - Knowledge 'type' / category
 - Geo-spatial



Data & Content archives

Common European data spaces

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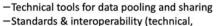
Free flow of data across sectors and countries

Rich pool of data (varying degree of accessibility)

Full respect of GDPR

Horizontal framework for data governance and data access





- Standards & interoperability (technical, semantic)
- Sectoral Data Governance (contracts, licenses, access rights, usage rights)

Energy

(0)

Mobility

Green Deal

Finance

 IT capacity, including cloud storage, processing and services

- RISKs of 'walled gardens' and proprietary file formats
- Unreliable maintainability & access to content



source link

Public

Administration

Skills

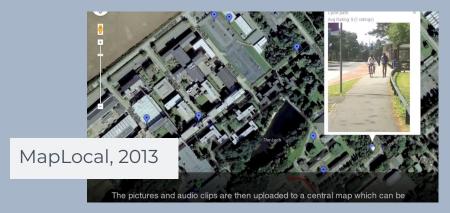
Community mapping

Online map interactions access knowledge related to place

Users add content to maps using website interfaces or custom apps

These ideas have been around for a while - since 2004, with Socialight, for example





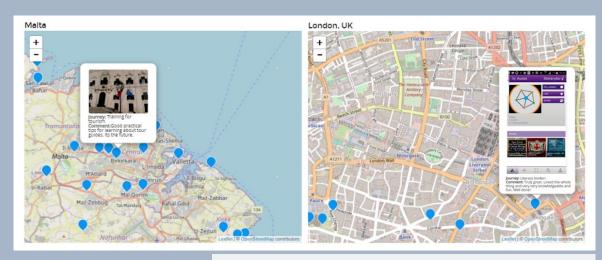


The Learner Feedback Map

Using free apps and web functionality, give user a direct way to add urban contextual knowledge to places and things, using a simple web form, and GPS pins.

Other users can access the map on the phone, view content and comments left by others, as well contribute.

This leaves a trail of citizen knowledge that builds a feeling of being part of something, of value, and belonging.



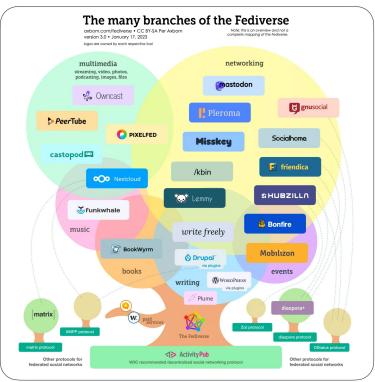
The Learner Feedback Map, 2017-2021

Jotform, Google Sheets, Sheetsee.js, Zapier, JSON/CSS, Open Street Map and a WordPress website

The Decentralised Future of the Knowledge Web The many branches

THE ROLE OF THE FEDIVERSE AND ACTIVITYPUB

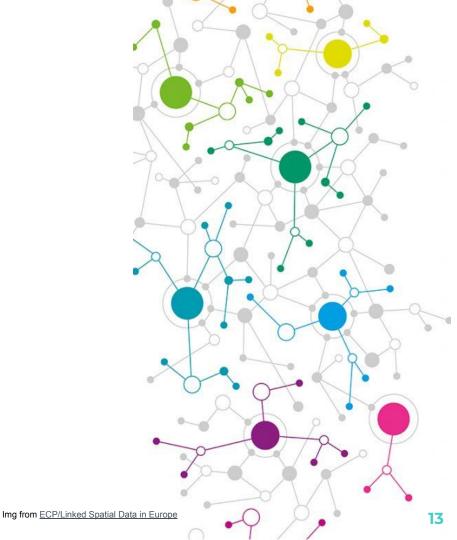
- Federated server content hosting, owned by civic orgs
- Apps & interfaces separate from data itself
- User account portability 'Nomadic (portable) ID'
- Decentralised federated knowledge content finding & sharing
- Geo-spatial findability
- Subject area/provider UID



Per Axbom, https://axbom.com/fediverse/

Conclusions

- "(u)rban space is not just a container for social relations, but a product of social relations" (Boy, 2022)
- "Data and content needs to be decoupled from platforms and apps, ... empowering users (expert and citizen) to move between platforms, viewing and sharing the same (open) data sources, and that archived content is owned and maintained in civic federated archives for the benefit of all." (Lister, 2023)





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THANK YOU

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