

# Karl Donert

**Consultant, Director: European Centre of  
Excellence: digital-earth.eu & Innovative  
Learning Network, President EUROGEO**

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Presentation @ <http://tinyurl.com/dlearn-map>





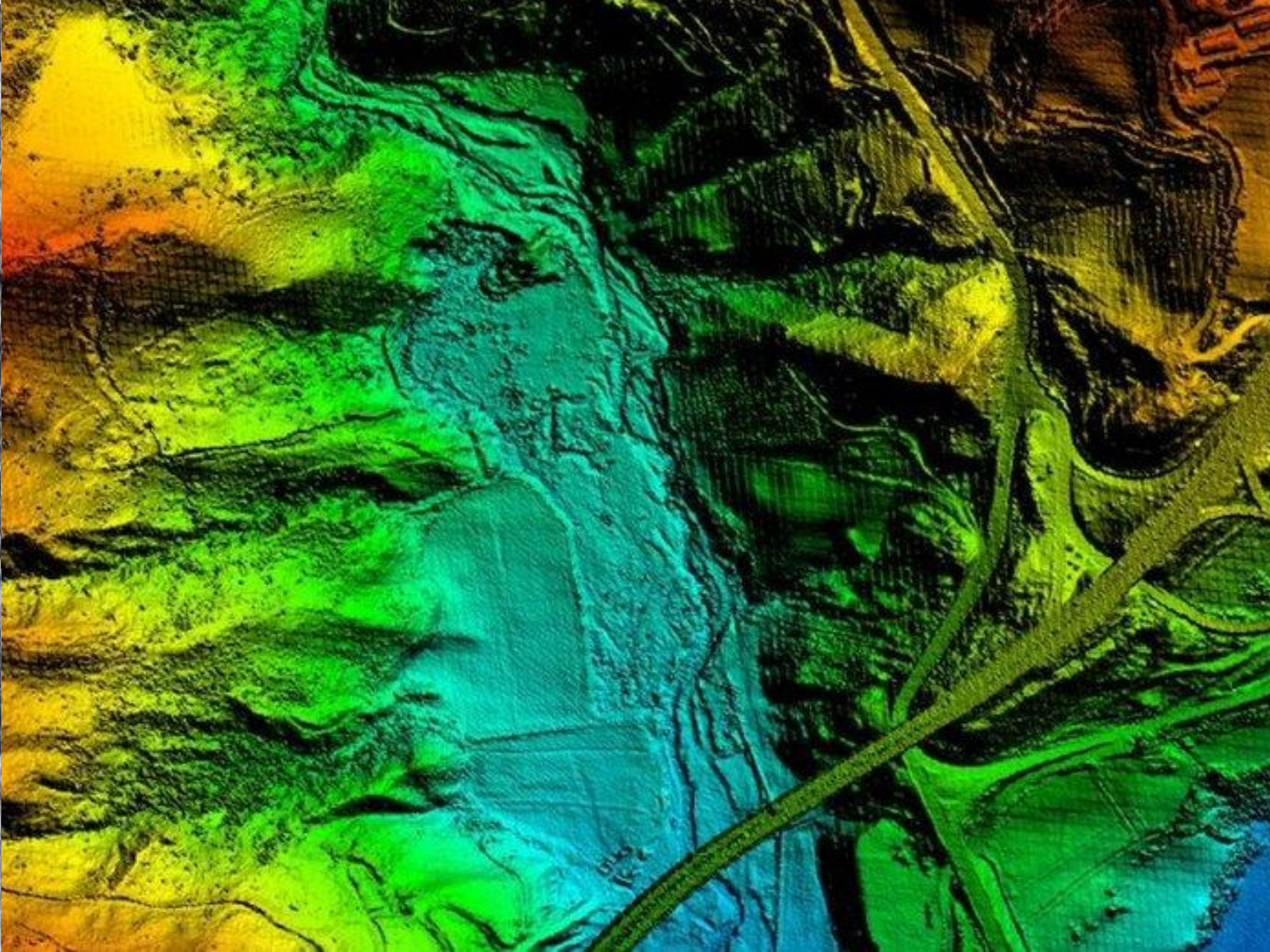




# A world of geographic information

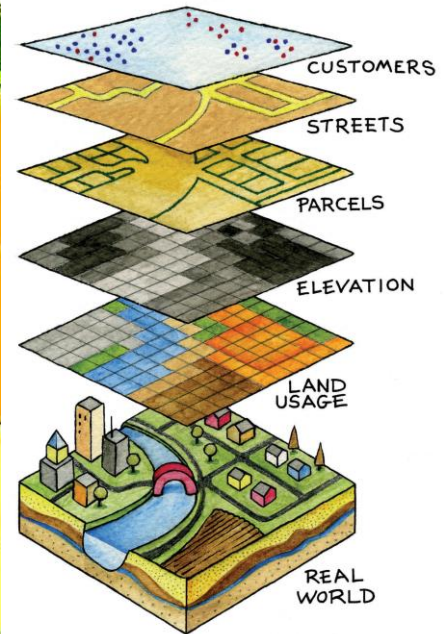
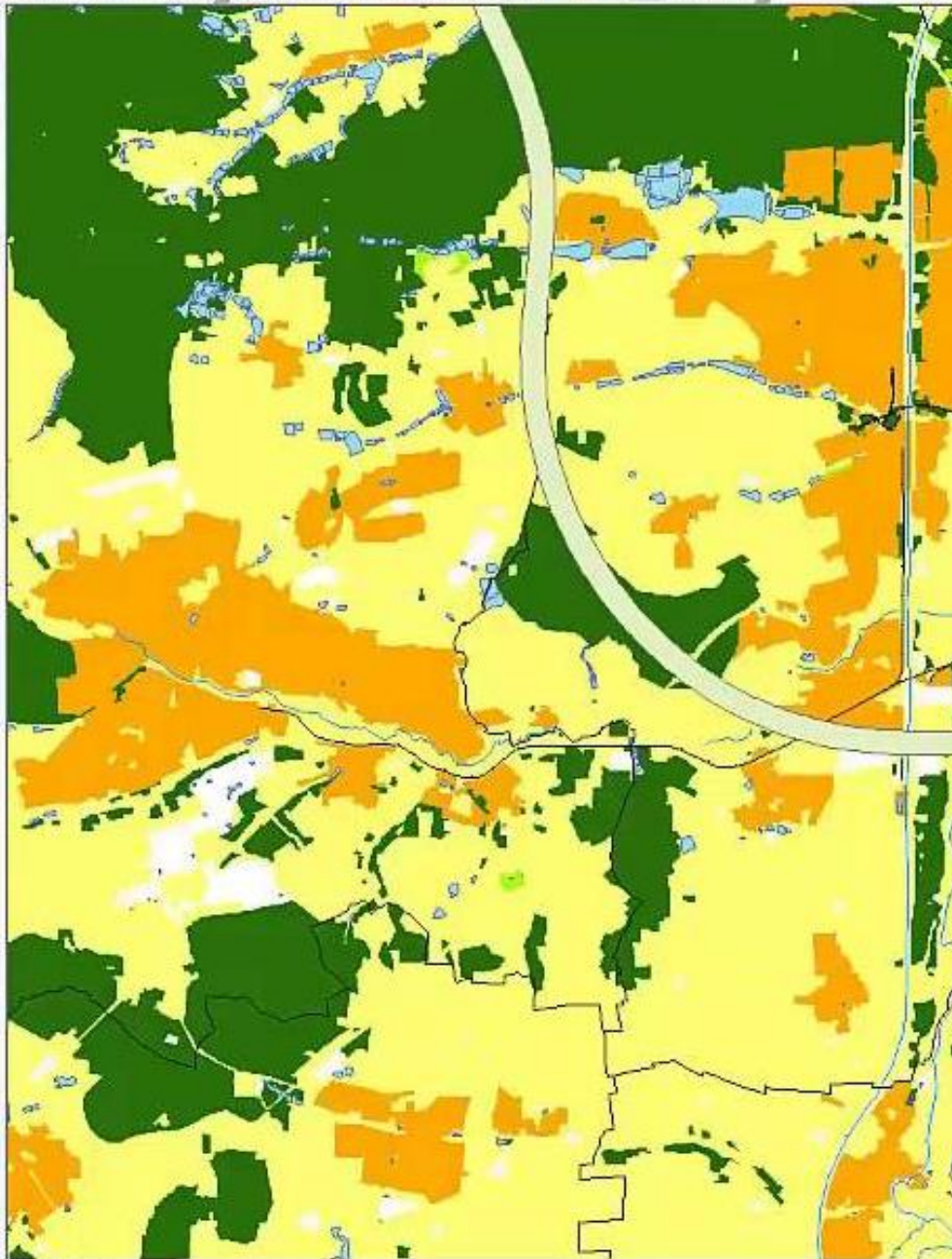




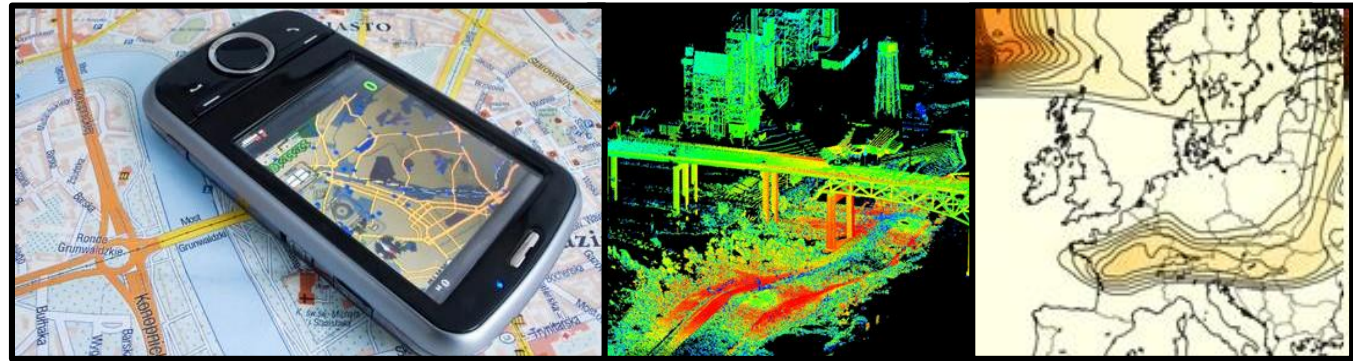




- Mittelfranken
  - Buffer\_100m
  - 
  - Verwaltungsgrenzen
    - Landkreise\_Mittelfranken
    - 
    - Regierungsbezirksgrenze\_Mittelfranken
    -
  - Gewaesser
    - Fluesse
    - 
    - Stehende\_Gewaesser
  - Verkehr
    - Dissolve\_Autobahnen
    - Autobahnen\_Mittelfranken
    - Bahnstrecken
    - 
    - Hauptstraßen\_Mittelfranken
    -
  - Landbedeckung
    - Sonstige\_Vegetation
    - 
    - Wald
    -
  - Landnutzung
    - Landwirtschaft
    - 
    - Ortschaften







# Digital Storytelling

## the potential of digital mapping and open data on the Cloud



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President, EUROGEO: European Association of Geographers  
Director, Innovative Learning Network  
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[www.innovativelearning.co.uk](http://www.innovativelearning.co.uk)









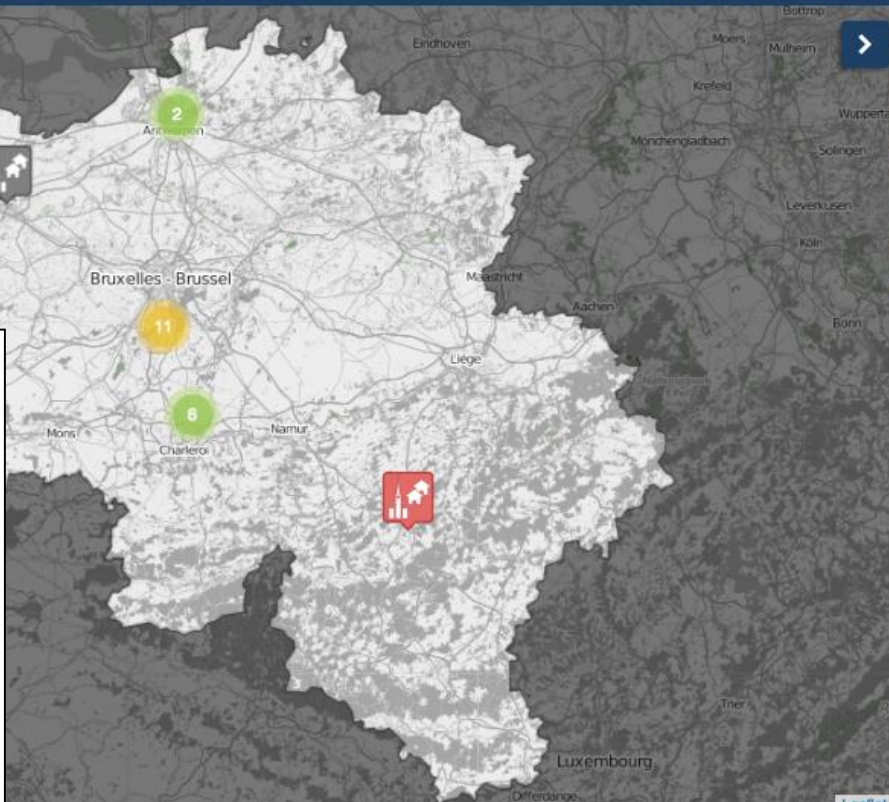


# Download GeoCitizen App


 GEOCITIZEN

Search for a point on the map  

 > Login



### YouthMetre Belgium





Info Surveys Ideas Statistics

#### YouthMetre Belgium

This is the pilot project of the YouthMetre GeoCitizen application. Have fun!

This happened last here

-  [Karl Donert](#) has submitted a new [Discussion Topic](#) a day ago
- Virtual Erasmus mobility  
Create opportunities to connect with other students virtually
-  [Karl Donert](#) has submitted a new [Discussion Topic](#) a day ago







# The Future of Technology

Matt Britland, The Guardian: 19 June 2013,

<http://tinyurl.com/o65bvcr>

The future is about access, anywhere learning and collaboration, both locally and globally. Teaching and learning is going to be social. Schools of the future could have a traditional cohort of students, as well as online only students who live across the country or even the world. Things are already starting to move this way with the emergence of massive open online courses (MOOCs).

For me the future of technology in education is the cloud.

Technology can often be a barrier to teaching and learning. I think the cloud will go a long way to removing this barrier. Why? By removing the number of things that can go wrong.

Mini-Note Data base





# The Future of Technology

Matt Britland, The Guardian: 19 June 2013,

<http://tinyurl.com/o65bvcr>

With the cloud, the world will be our classroom. E-learning will change teaching and learning. Students can learn from anywhere and teachers can teach from anywhere.

This is where devices come in. All devices, not matter which ones we will use in the future will need to access the cloud. Each student will have their own. Either a device specified by the school or one they have chosen to bring in themselves.

Rather than being 'taught' students can learn independently and in their own way. There is also a massive amount of resources online that students can find and use themselves, without the help of the teacher.

This of course means the role of the teacher will change.





# Transition to the Cloud (leadership and management)





**What way has the Cloud  
impacted on you most?  
Which tools?**

URL: <http://bit.ly/2qA2aJb>







# Dotstorming

<http://bit.ly/2qA2aJb>

dotstorming

Share

Add a Card

Upload an Image



## How has the Cloud impacted on you most? Which tools?

Please give the most important impact and specific tools.  
You can add text and images - you can chat with others  
You will have up to three votes for the best answers



3 votes available

Chat Enabled:

Rank by votes

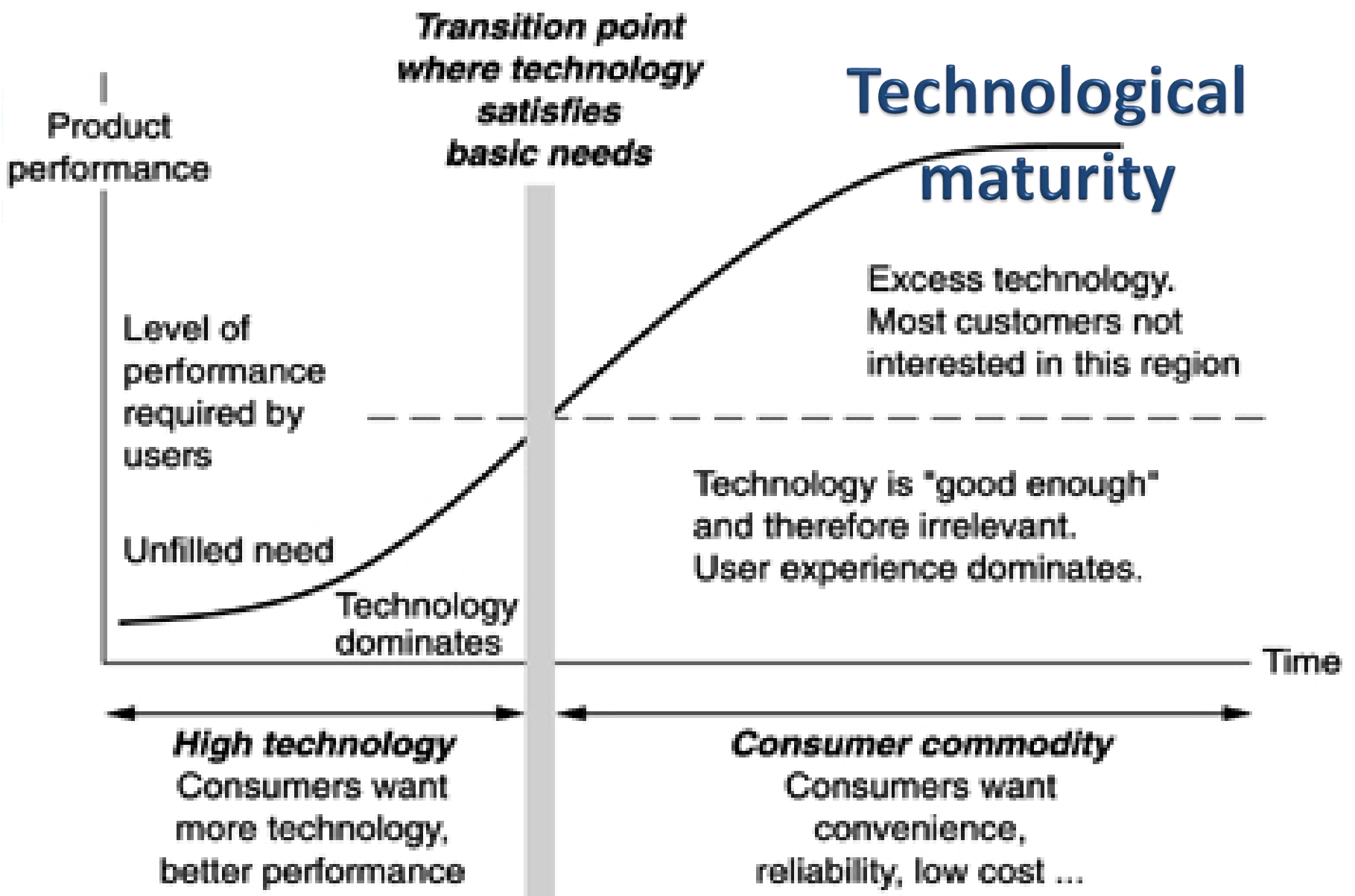


Aggregators Wikis Folksonomy User Centered Joy of Use  
Blogs Participation Six Degrees Usability Widgets  
Pagerank XFN Recommendation Social Software FOAF Browser  
Videocasting Podcasting Sharing Collaboration Perpetual Beta Simplicity AJAX  
Audio IM Video **Web 2.0** Design CSS Pay Per Click  
Convergence UMTS Mobility Atom XHTML SVG Ruby on Rails VC Trust Affiliation  
OpenAPIs RSS Semantic Web Standards SEO Economy  
OpenID Remixability REST Standardization The Long Tail  
DataDriven Accessibility XML  
Modularity SOAP Microformats Syndication



# Society might never be the same





Norman, D. A. (1998). *The invisible computer: Why Good Products Can Fail, the Personal Computer Is So Complex, and Information Appliances Are the Solution*. Cambridge, MA: MIT Press.





# CITIZEN SCIENCE

GO AHEAD, TRY THIS AT HOME







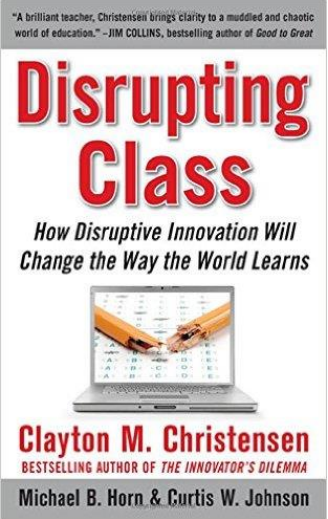
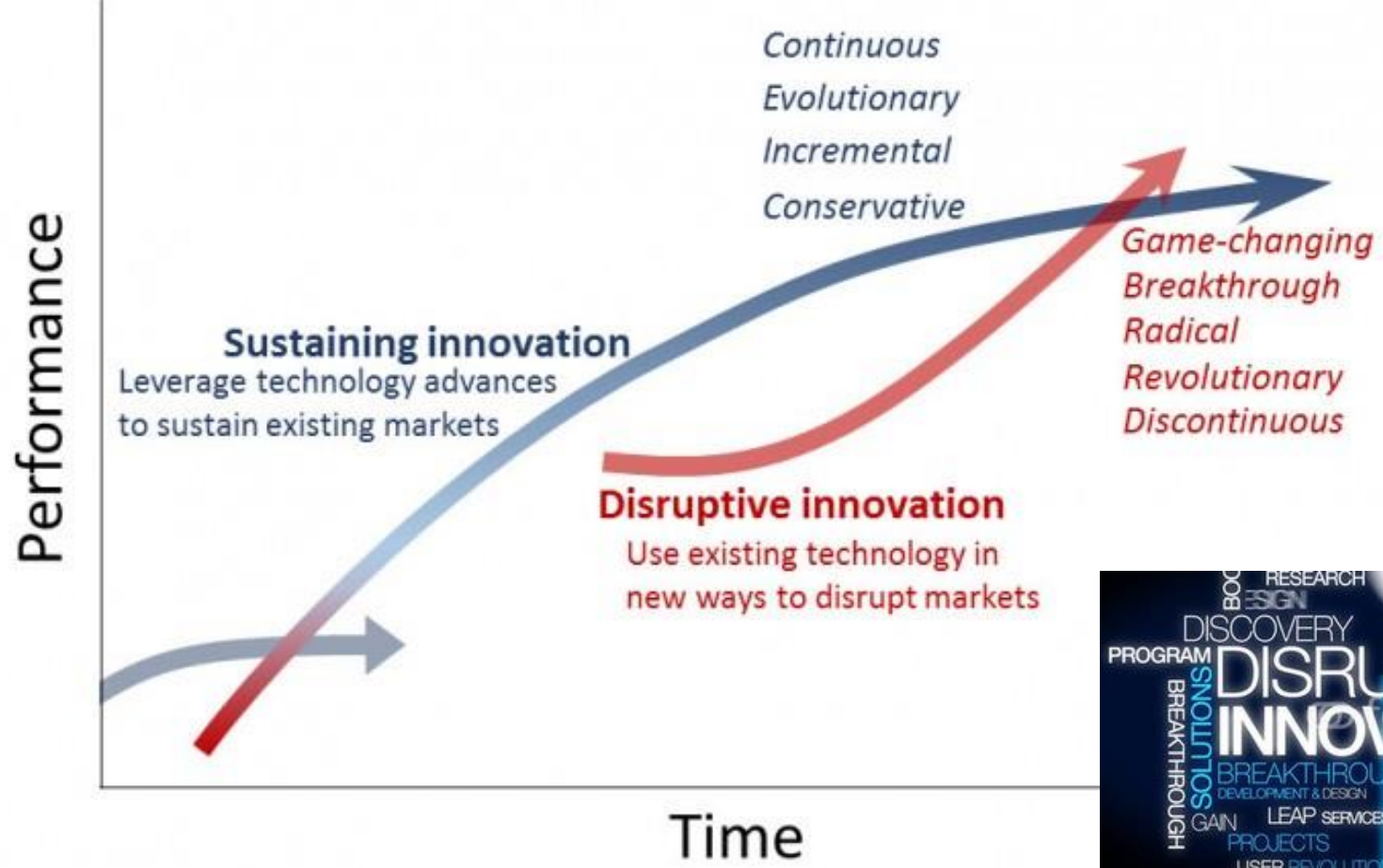
Learning in  
real and  
virtual  
contexts

How should education  
respond?





# Disruptive Innovation







# Disruption: threats and consequences

## Threats

- **Chaos** – instability - change routine
- Initial **investment**
- Resistance – **fear**
- **Loss of control**
- Ownership - **security**
- **Quality**

## Consequences

- **New** learning processes
- **Change** administration
- **Different** decision making
- **Integrated** ecosystems
- **Exchange** of knowledge
- **Better** assessment



# Disruption: opportunities

- **Full control** – monitoring learning process / outcomes
- **Adjust** expectations
- **Improve organisation**
- **Systemic change** – different roles
- **Move forward** – better assessment
- **Empowering**
- **Motivating** – exciting – attractive
- **Flexible organisations**
- **Competitive**
- **Optimising** – greater efficiency

**Constructive disruption**





# Maps on the Web

ArcGIS Online



## The Geospatial Platform for Your Organization

Host your organization's geographic information in Esri's cloud with an ArcGIS Online subscription.

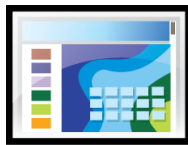
[Learn More >>](#)



# Maps on the Web key features

- System for storing and sharing data online
- A search engine .... for maps
- Base maps
- Lots of maps (and apps)
- Huge community of users

ArcGIS Desktop



ArcGIS  
Online



Web GIS



ArcGIS Explorer



Desktop GIS



Mobile GIS





Details Add ▾ Basemap Save ▾ Share Print Measure Bookmarks Find address or place





## Make your own map

It's easy to make your own map. Just follow these steps:


### 1. Choose an area.


Pan and zoom the map to an area or search by its name or address.

### 2. Decide what to show.

Choose a  Basemap then  Add layers on top of it.

### 3. Add more to your map.

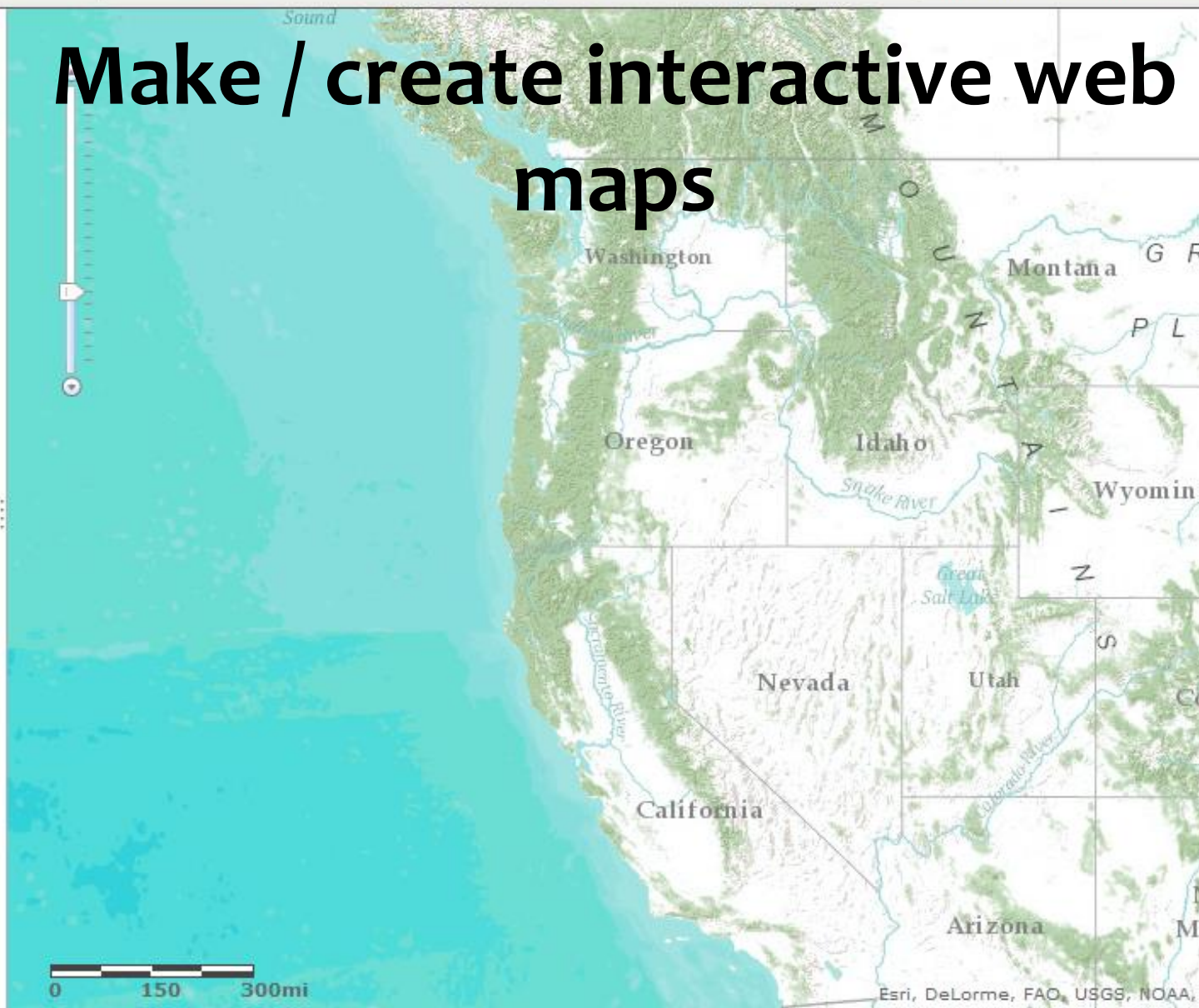
 Create an editable layer to draw features on the map.

Display descriptive text, images, and charts for map features in a  pop-up.

### 4. Save and share your map.

Give your map a name and description then share it with other people.

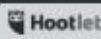
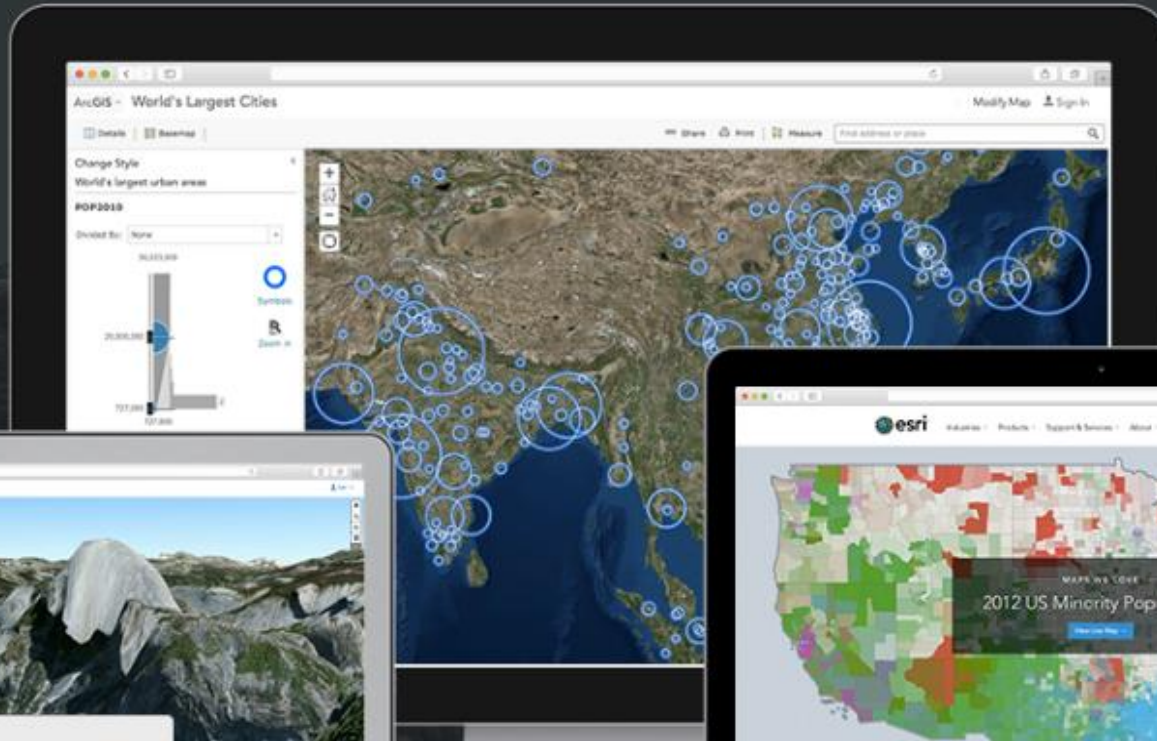
# Make / create interactive web maps



# Visualization

With ArcGIS you can visualize large amounts of data and convey information in a way that's more powerful than just words. Sharing your information visually with a map makes it easier for others to grasp your ideas. Bring your data to life with ArcGIS and tell the stories you want to tell.

[Learn More about Visualization](#)



visualization.html



Apps for Everyone



Ready-to-Use  
Maps



Visualization



Analytics



Administration



ArcGIS  
Marketplace



ArcGIS Solutions



Secure and  
Trusted



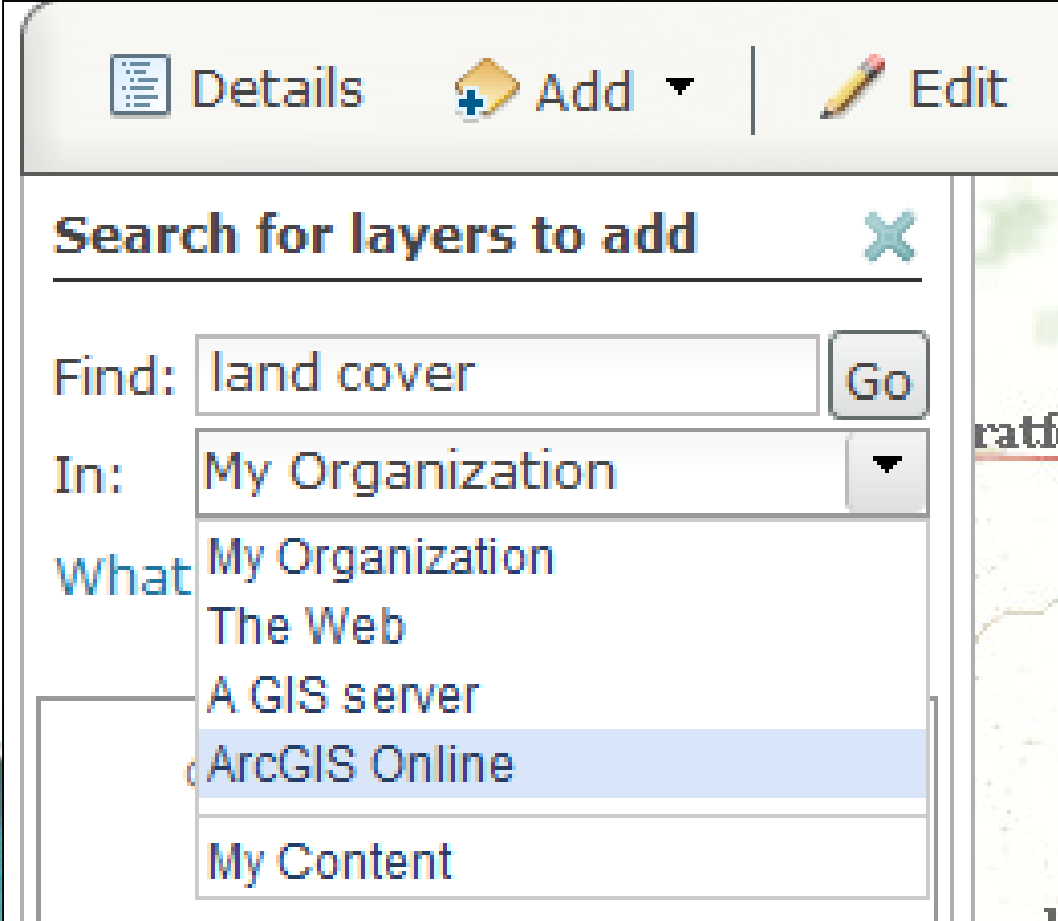
Tools for  
Developers



# Access content shared by other users

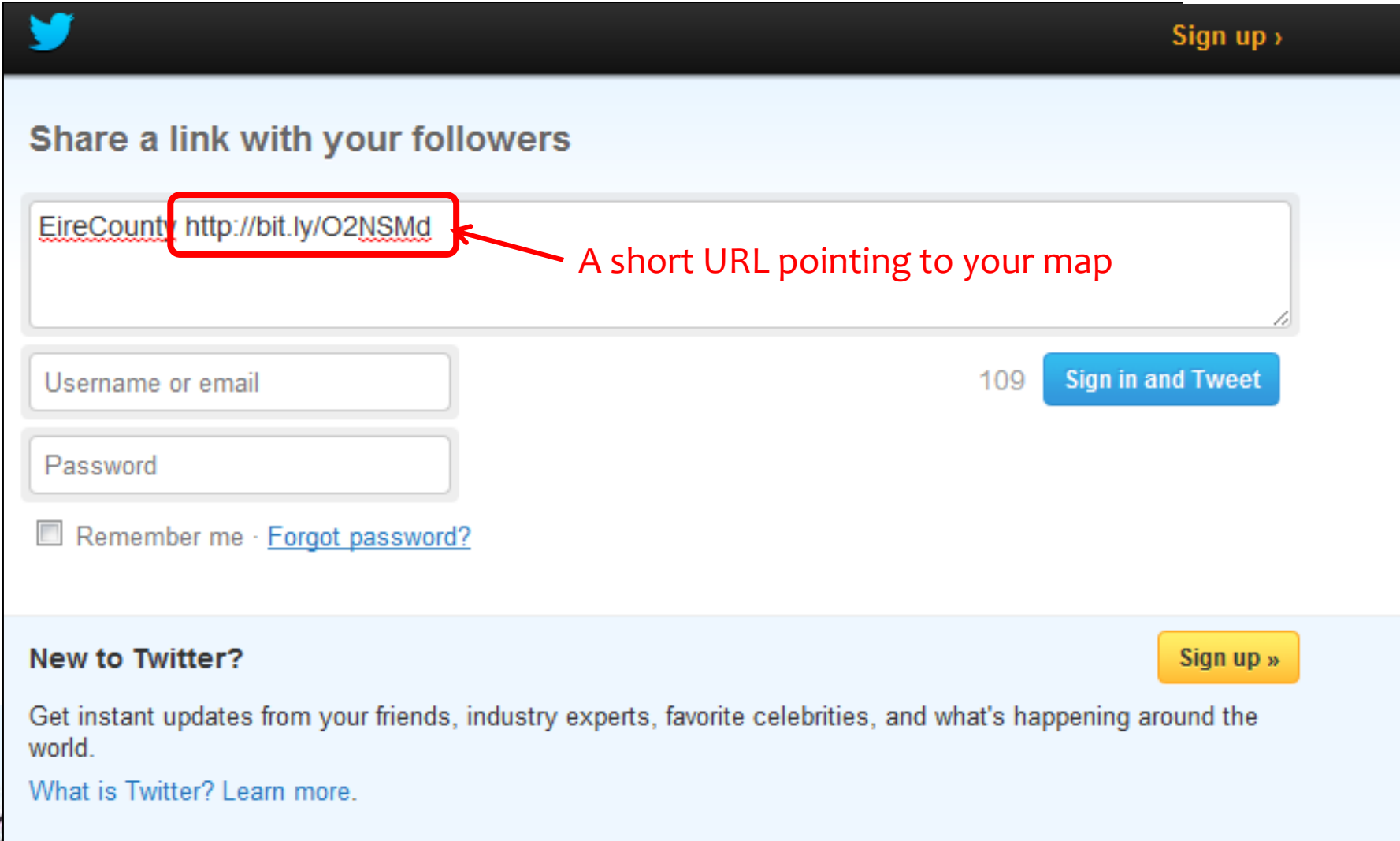
Search maps through:

- Your organization
- ArcGIS Online
- A GIS server
- The Web



The screenshot shows a GIS application interface with a search panel. At the top, there are three buttons: 'Details' (with a list icon), 'Add' (with a plus icon and a dropdown arrow), and 'Edit' (with a pencil icon). Below these is a search bar with the text 'Search for layers to add' and a close button (X). The search input field contains 'land cover' and a 'Go' button. Below the search input is a dropdown menu labeled 'In:' with 'My Organization' selected. A list of search results is displayed below, including 'My Organization', 'The Web', 'A GIS server', 'ArcGIS Online' (which is highlighted), and 'My Content'. The background of the interface shows a map and a building illustration.

# Sharing your maps



The screenshot shows a Twitter sharing interface. At the top left is the Twitter bird icon, and at the top right is a "Sign up" link. Below the header, the text "Share a link with your followers" is displayed. A text input field contains "EireCount" followed by a short URL "http://bit.ly/O2NSMd". A red box highlights the short URL, and a red arrow points to it with the text "A short URL pointing to your map". Below the text field are two input fields: "Username or email" and "Password". To the right of the "Username or email" field is the number "109" and a blue "Sign in and Tweet" button. Below the "Password" field is a checkbox labeled "Remember me" and a link "Forgot password?". At the bottom, there is a section titled "New to Twitter?" with a yellow "Sign up »" button. Below this section is the text "Get instant updates from your friends, industry experts, favorite celebrities, and what's happening around the world." and a link "What is Twitter? Learn more."

Sign up ›

Share a link with your followers

EireCount <http://bit.ly/O2NSMd> ← A short URL pointing to your map

Username or email 109 Sign in and Tweet

Password

Remember me · [Forgot password?](#)

**New to Twitter?** Sign up »

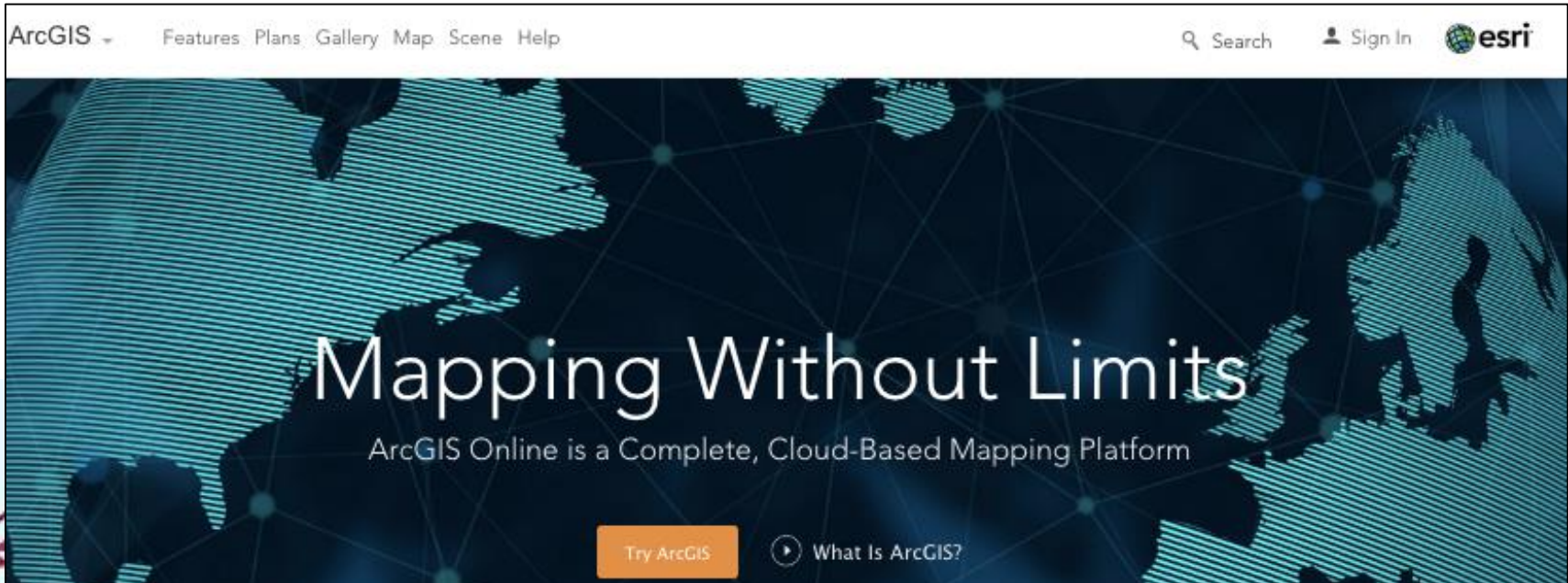
Get instant updates from your friends, industry experts, favorite celebrities, and what's happening around the world.

[What is Twitter? Learn more.](#)



# How can you access ArcGIS Online?

- **Personal** (free) and **organizational** accounts  
<https://www.arcgis.com/>
- Access - through web browsers and mobile devices



ArcGIS - Features Plans Gallery Map Scene Help

Search Sign In esri

## Mapping Without Limits

ArcGIS Online is a Complete, Cloud-Based Mapping Platform

Try ArcGIS What Is ArcGIS?

The screenshot shows the ArcGIS Online homepage. The header includes navigation links for Features, Plans, Gallery, Map, Scene, and Help, along with a search bar and a Sign In button. The main content area features a dark blue background with a world map and the text 'Mapping Without Limits' and 'ArcGIS Online is a Complete, Cloud-Based Mapping Platform'. At the bottom, there are two buttons: 'Try ArcGIS' and 'What Is ArcGIS?'.



# Web-centered Mapping







# ArcGIS Online is Mobile-Enabled

All ArcGIS Online web maps and apps are automatically available on **mobile devices**.

They are **device independent**, and do not need the ArcGIS Online app to access them.





# Tell Your Story



Home The Project Partners Outputs News Contact us Language:   

## With Story Maps

**“We are all storytellers. We all live in a network of stories. There isn’t a stronger connection between people than storytelling.”**

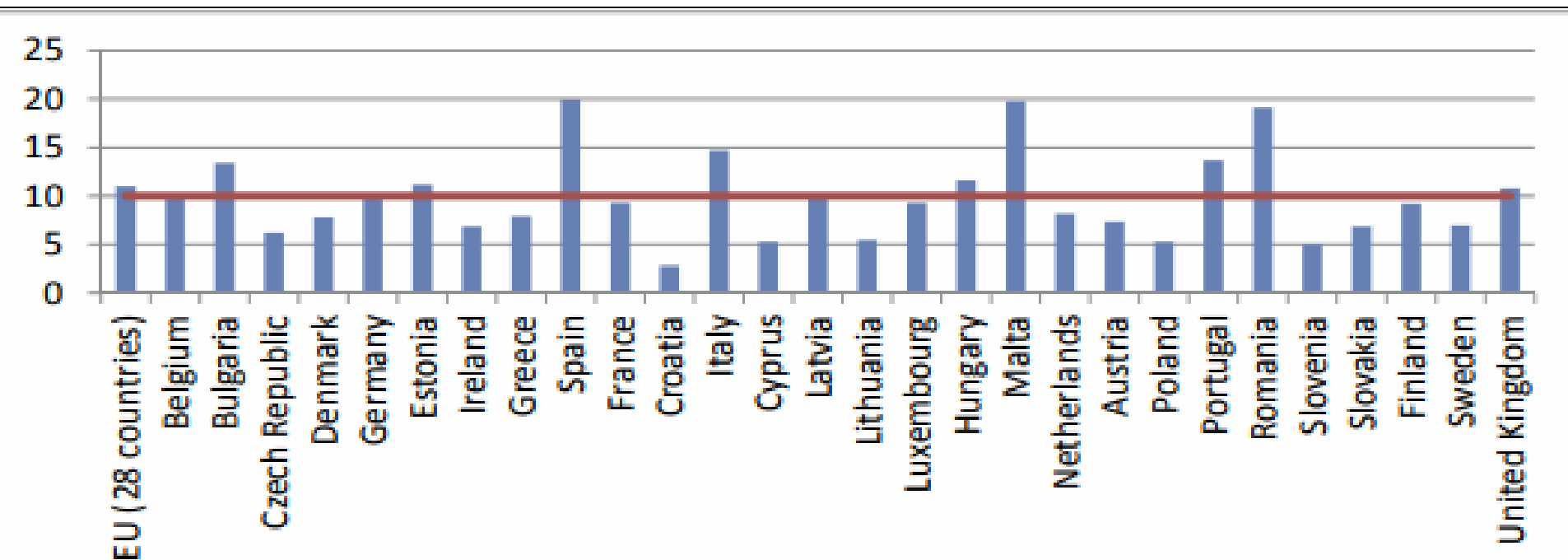
-Jimmy Neil Smith, Director of the International Storytelling Center

<http://tellyourstorymap.eu>



# Power of Storytelling

- Tell Your Story <http://tellyourstorymap.eu>
- Telling digital stories with maps to fight against early School-Leaving





# Power of Storytelling

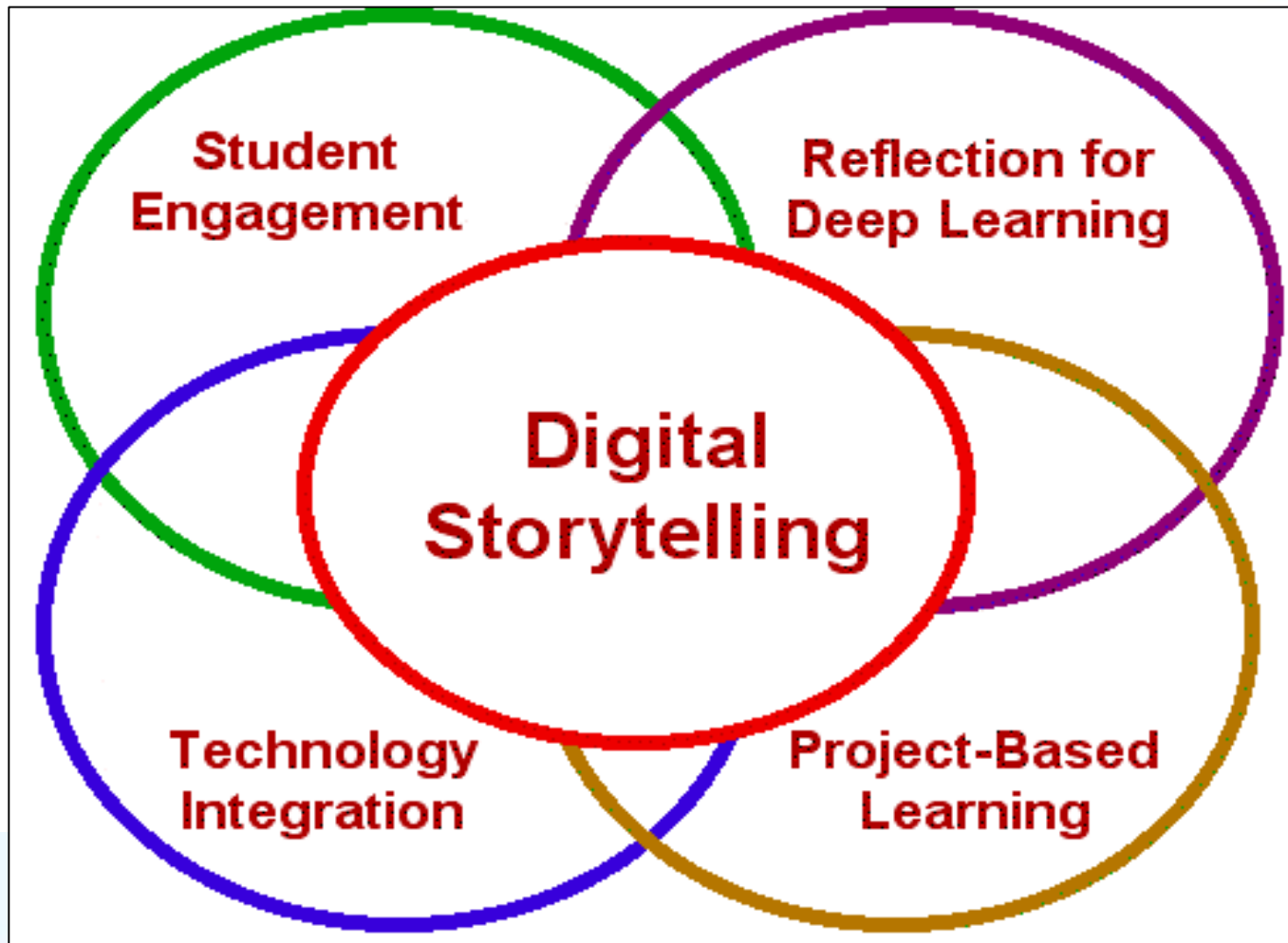


- Storytelling is the art of telling stories
- Helps build *identities*, construct *meaning*, make *connections* with others and facilitate *access* to information
- Based on:
  - *narrative*,
  - *dialogue* and
  - *content curation*





# Digital Storytelling



Components of digital storytelling (Freidus and Hlubinka, 2002)



# Storytelling with maps



- Digital maps are a *gateway to discovery*
- Essential tools for *understanding* issues and *solving* real *problems*
- Storymaps helps organize thoughts, evaluate strengths and weaknesses of a situation, give a clear visual reference for exploring potential new directions and an instrument for understanding and addressing *complex issues*







# Story Maps

Everyone has a story to tell.  
Harness the power of maps to tell yours.

Potential of Story Maps <https://storymaps.arcgis.com/>





# Storymapping pedagogies



- An ***alternative*** approach ... less traditional
- Cognitive ***organizational scheme*** through which the narrator can subjectively organise, shape, and structure experiences into a coherent whole
- ***Interactive content***, more dynamism in the ways of teaching, provokes greater creativity and empowerment to participate in decisions





# Storymapping pedagogies

- ***social pedagogy*** - considers the person as a whole, without separating knowledge, feelings, and actions (Úcar, 2013)
- based on ***active learner constructivism***
- ***'sensemaking'*** (Calvard, 2016)
- useful process during crises, periods of change, learning and cognition (Sandberg and Tsoukas, 2014)



# Storytelling with maps

<http://arcg.is/2wcRoLf>

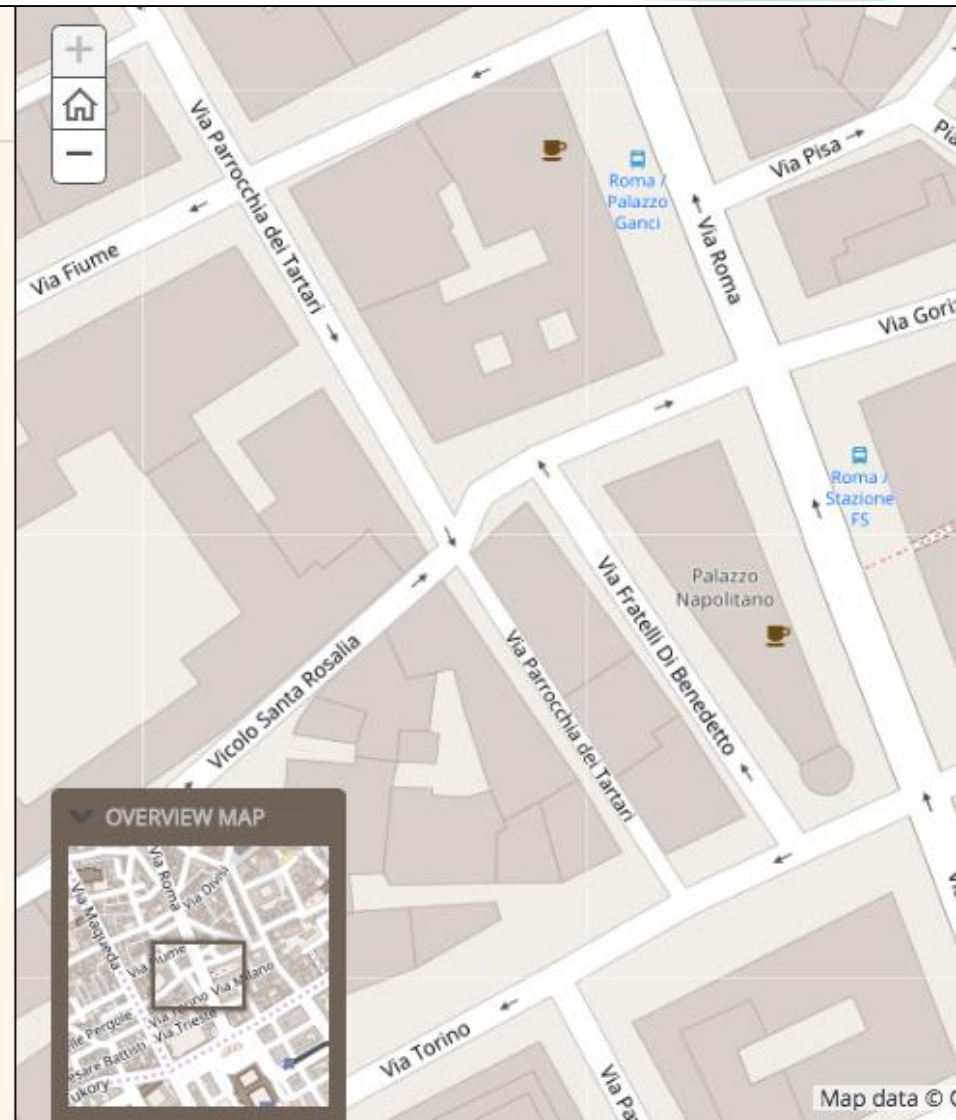
A story map about Storytelling

'Tell Your Story' course

... making stories was also fun



Tell Your Story pilot group



# Storytelling with maps

A story map



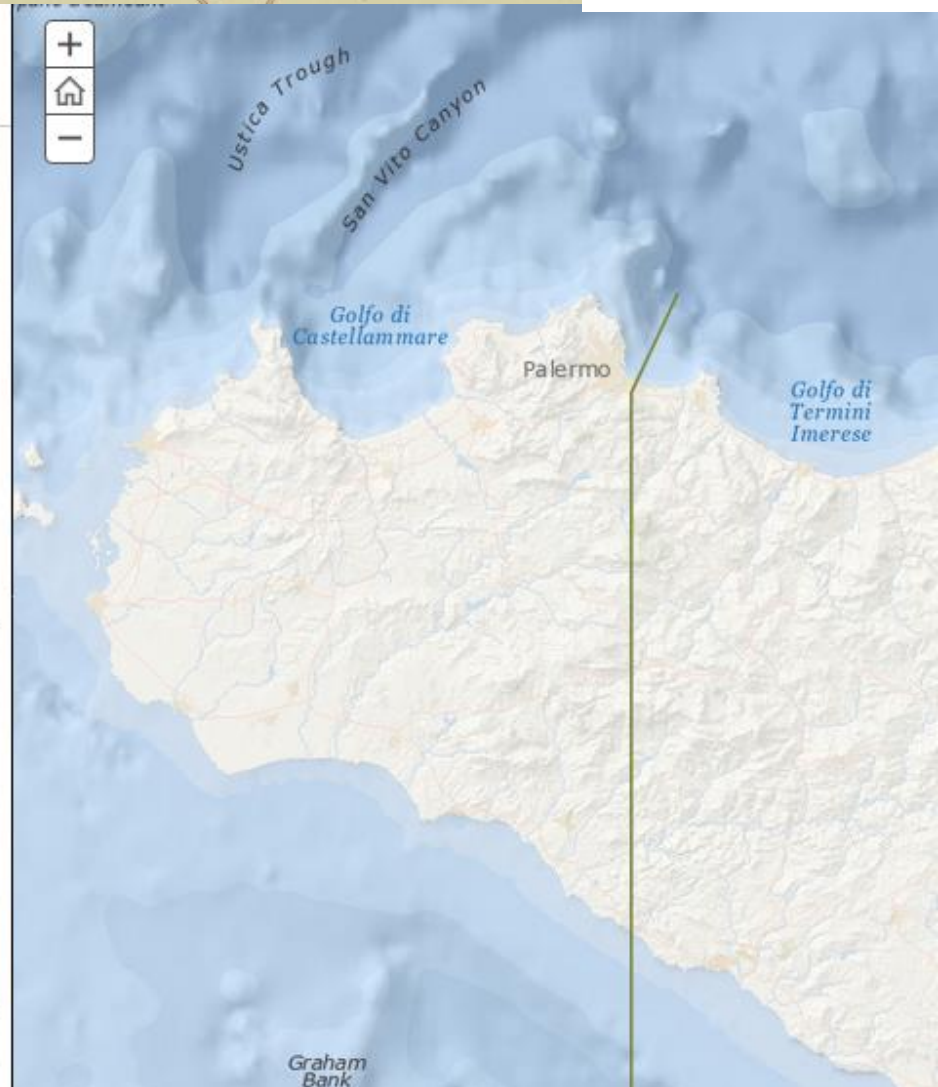
Our Story (2017)



## So now I am in Italy....Palermo

where myself and Sarjo are now waiting for our papers with the hope of getting back into education

Barkley and Sarjo interview by Danny , on the importanc...







YOUTHMETRE

<http://www.youthmetre.eu>

**Empower youth to have an  
impact on EU youth policy**





# European Youth Strategy

**EYS (2010-8) has two main objectives:**

- Provide more and equal opportunities for young people in education and the job market
- Encourage young people to actively participate in society





# Eurobarometer Surveys

- Examined active engagement of youth

Eurobarometer "European Youth: Participation in Democracy"

*Youth increasingly distanced from policy making and decisions*

With regard to our project "Young-Europe Voters 2014" the new Eurobarometer gives a detailed view on young EU citizens' participation in society, with special reference to attitudes towards participation in elections and intentions to participate in the **European elections in 2014**.

The survey examined the following **issues**:



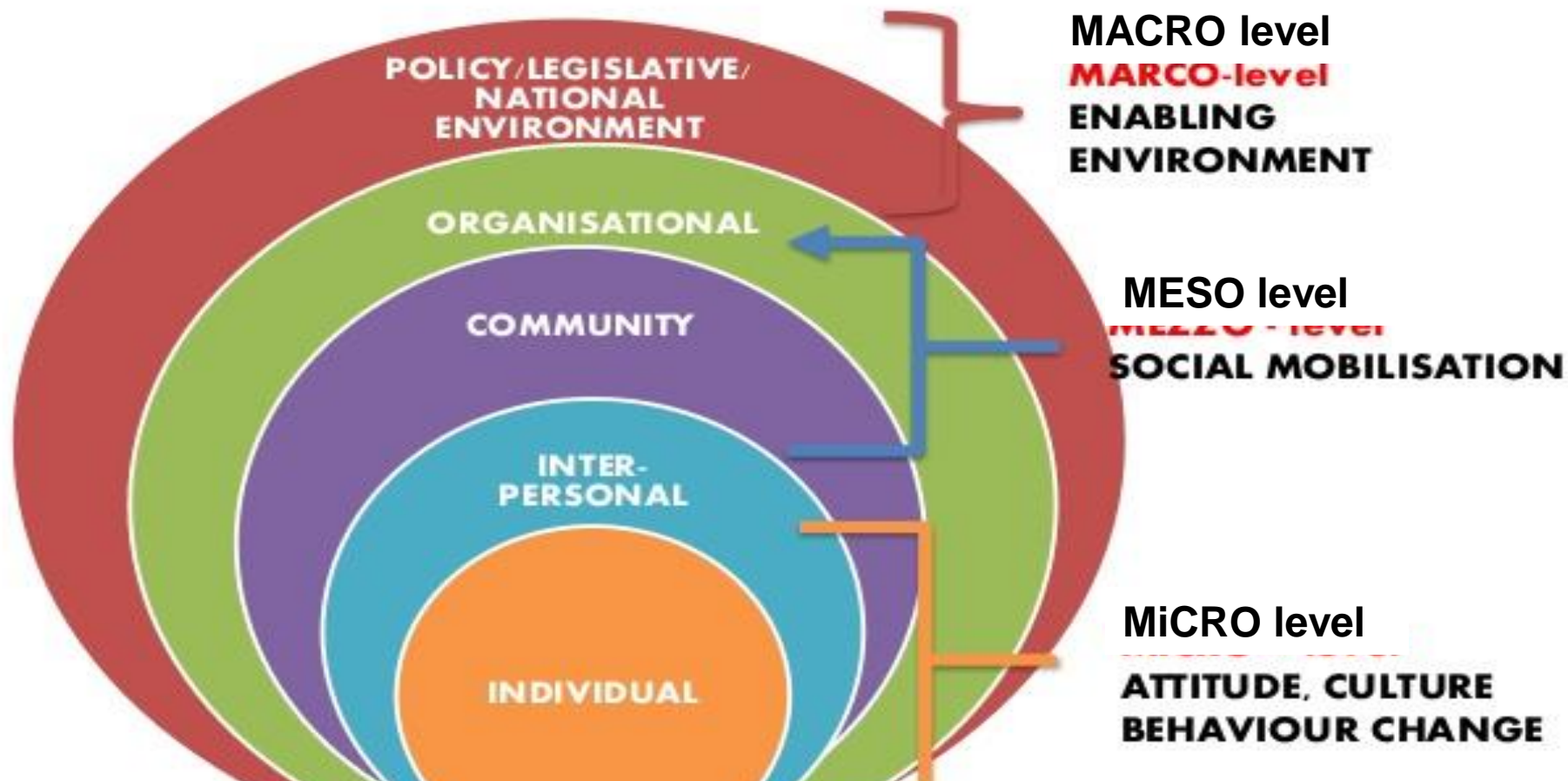


# Structured Dialogue



# YouthMetre Challenge

**ACTION for CHANGE ... at various levels**



# There is no participation without information!

Blog · WP9







**participation**  
everyone has the means to actively engage



**empower**  
every voice is heard



**no restrictions**  
free & unrestricted access to all available data



**opportunity**  
new social & business opportunities



**transparency**  
promotes accountability and provides information



**digital**  
convenient & reusable data



**access**  
available to all



**availability**  
committable, operable & usable upon demand



**Availability & Access**

Open data must be available as a whole and at no more than a reasonable reproduction cost, preferably by downloading from the internet in a convenient and modifiable form.

**Reuse & Redistribution**

Open data must be provided under terms that permit reuse and redistribution including the interoperability with other datasets.

**Universal Participation**

Everyone must be able to use, reuse and redistribute - there should be no discrimination against fields of endeavour or against persons or groups.

Maps and interactive visualisations help regions and cities decode their toughest challenges

<https://t.co/3Jmbc0ZMJC>

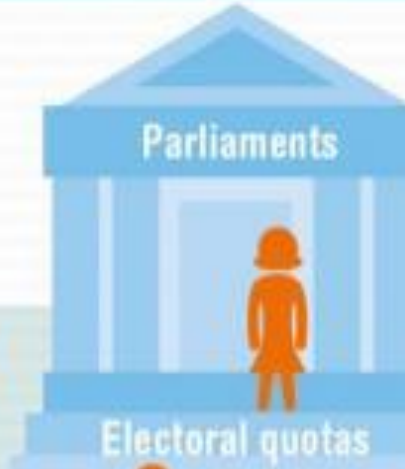






# POLITICAL VOICE

The ability to express your views and interests and to influence policy and decision-making processes



**Open Information**

Protests

Public fora

Social media

Communication technology

Elections

Participatory decision-making



**Open Government**

Access to information laws

Political parties

**Participatory Actions**

NGOs





# Citizen Science

Long running  
Citizen Science

Ecology &  
biodiversity

Meteorology

Astronomy

Citizen  
Cyberscience

Volunteer  
computing

Volunteer  
thinking

Passive  
Sensing

Community  
Science

Participatory  
sensing

DIY Science

Civic Science

Bonney, R., Cooper, C. and Ballard, H., 2016. The theory and practice of Citizen Science: Launching a new journal. *Citizen Science: Theory and Practice*, 1(1).

Finquelievich, S., 2014. From Cultural Consumers to Cultural Prosumers: Citizens' Co-creation of Cultural Changes in Information Society. *Internet and Socio-Cultural Transformations in Information Society*, p.137.





# 15 Study Groups

A story map



## YM study groups calendar



### 1. Italy

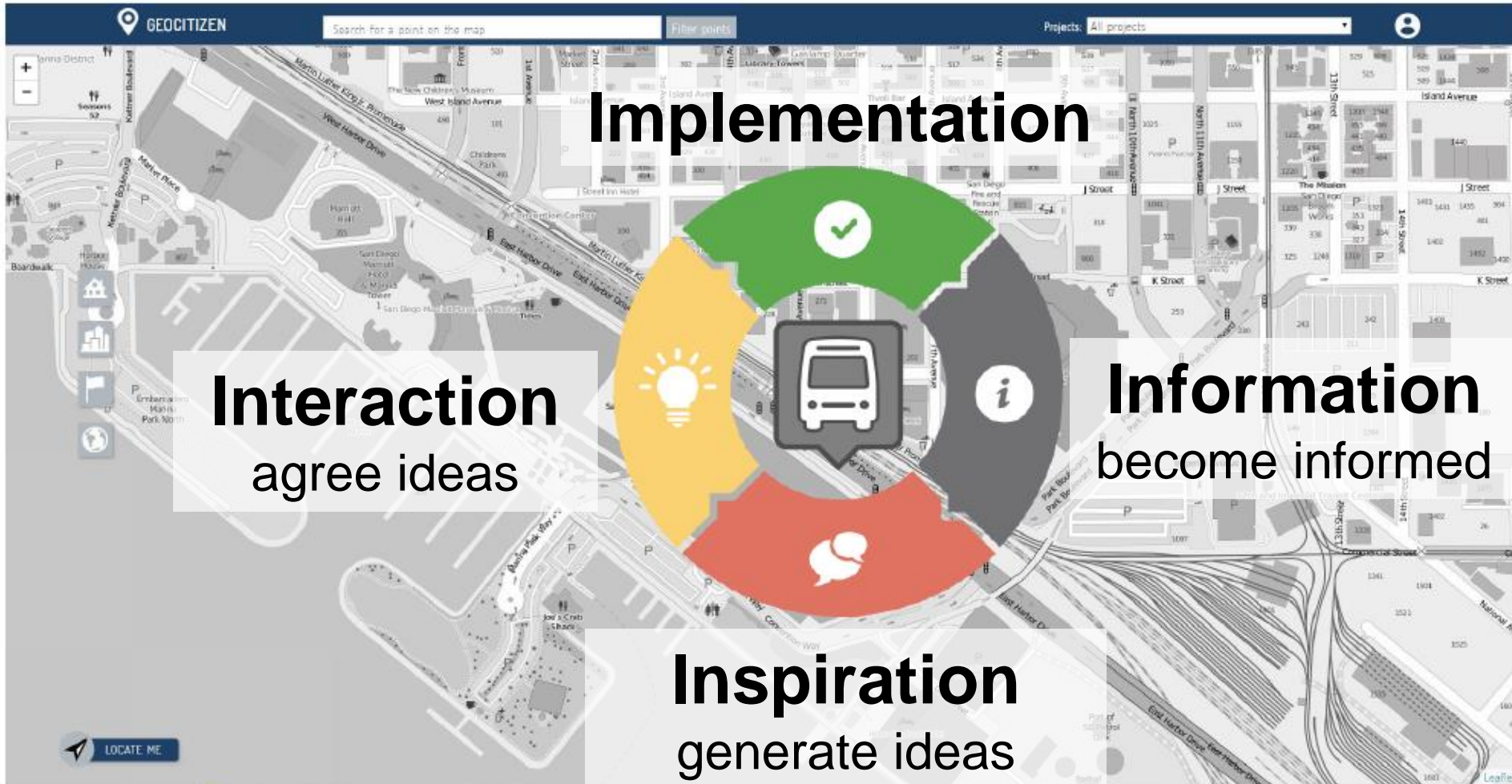
(Marche region: Ancona, Fermo, Ascoli, Pesaro, Macerata) – Dates: May 23rd to 27th - Hosting Institution: Informagiovani Marche

### 2. Spain

<http://youthmetre.eu/study-groups/>







**Implementation**

**Interaction**  
agree ideas

**Information**  
become informed

**Inspiration**  
generate ideas

The screenshot shows the GEOCITIZEN web application interface. At the top, there is a search bar with the text "Search for a point on the map" and a "Filter points" button. To the right, it says "Projects: All projects". The main area is a map of San Diego, California, with a central circular diagram overlaid. The diagram consists of four colored segments: a green segment at the top with a white checkmark icon, a yellow segment on the left with a white lightbulb icon, a red segment at the bottom with a white speech bubble icon, and a dark grey segment on the right with a white information icon. In the center of the diagram is a white bus icon. The map background shows streets, buildings, and a river. The GEOCITIZEN logo is in the top left corner, and a "LOCATE ME" button is in the bottom left corner.

## Process:

Orient – Browse - Identify – Collect - Share – Discuss -  
Propose - Rate - Implement – Monitor





Suche einen Punkt auf der Karte

Punkte filtern

Projekte: Alle Projekte

Projekte: Alle Projekte

Sparkasse

Turnhalle



Hochgeladen durch Benjamin Pühretmair - Invalid date

Sport > Freizeit

### Beschreibung durch

Ein größerer Turnsal für Fußball, Tennis, Gymnastik, kleinere Veranstaltungen ... wäre gut. Der Turnsaal in der Volksschule ist einfach zu klein um vernünftig zu trainieren oder für andere Sachen



Bilder(0)



Audio(0)



Dokumente(0)



Sparkasse

Grieskirchner Straße

Floriantweg

L525

8



<http://blog.geocitizen.org>

Karl Atzmanstorfer, Thomas Blaschke

University of Salzburg





# Innovative Teacher - iTeacher

Changing roles of teachers

Online catalogue of essential tools



Guidance for teachers

Define key teaching competences







Moodle SoC    SoC social media    Zo is het GO!    Interesting links    D3.1    D3.2    webinar D3.2

iTeacher - participants    Board Planning - iTeacher

Delphi method... Wikipedia, t...    Six Thinking Hats - Wikipedi...

pre-assignment... Porto homepage    pre-assignment... Porto    SAPO campus on the cloud

WHAT is an iTeacher?    HOW TO BE an iTeacher?    iFuture

Search the web

The web    Images    Maps    Tiles    Webmixes    News

enhanced by Google

Zeetings    D3.2 lesson plans    Template less... plan

quiz    TACCLE 2

Groupmaker    Online Stickers... lino    Tagxedo - Word Cloud    Wikispaces    Online Mind Mapping and Brai...    VideoScribe    ScratchJr - Home    Mentimeter - Turn opinions i...    symbaloo    Realtimeboard

Google Forms    Aurasma    Interactive Presentation Sof...    ClassTools.net Interactive L...    Learning Apps.org    Google Docs    MindMap





# Independent Learner - iLearner

**Personalised learning**

**Manual for teachers**

**State of the art review**





# HARD SKILLS



# SOFT SKILLS



European Commission (2015),  
Creating Value Through Open Data  
<http://tinyurl.com/j6qypoe>





The logo for YouthMetre, featuring the word 'Youth' in white and 'Metre' in a light blue color. The background of the top half of the slide shows a group of four young people looking upwards against a red-tinted cityscape.

# YouthMetre

**Web:** <http://www.youthmetre.eu>

**Newsletter:** <http://tinyurl.com/YouthMetre1>

**Email:** [eurogeomail@yahoo.co.uk](mailto:eurogeomail@yahoo.co.uk)

**Twitter:** [@youthmetre](https://twitter.com/youthmetre)





**What way has the Cloud  
impacted on you most?  
Which tools?**

URL: <http://bit.ly/2qA2aJb>



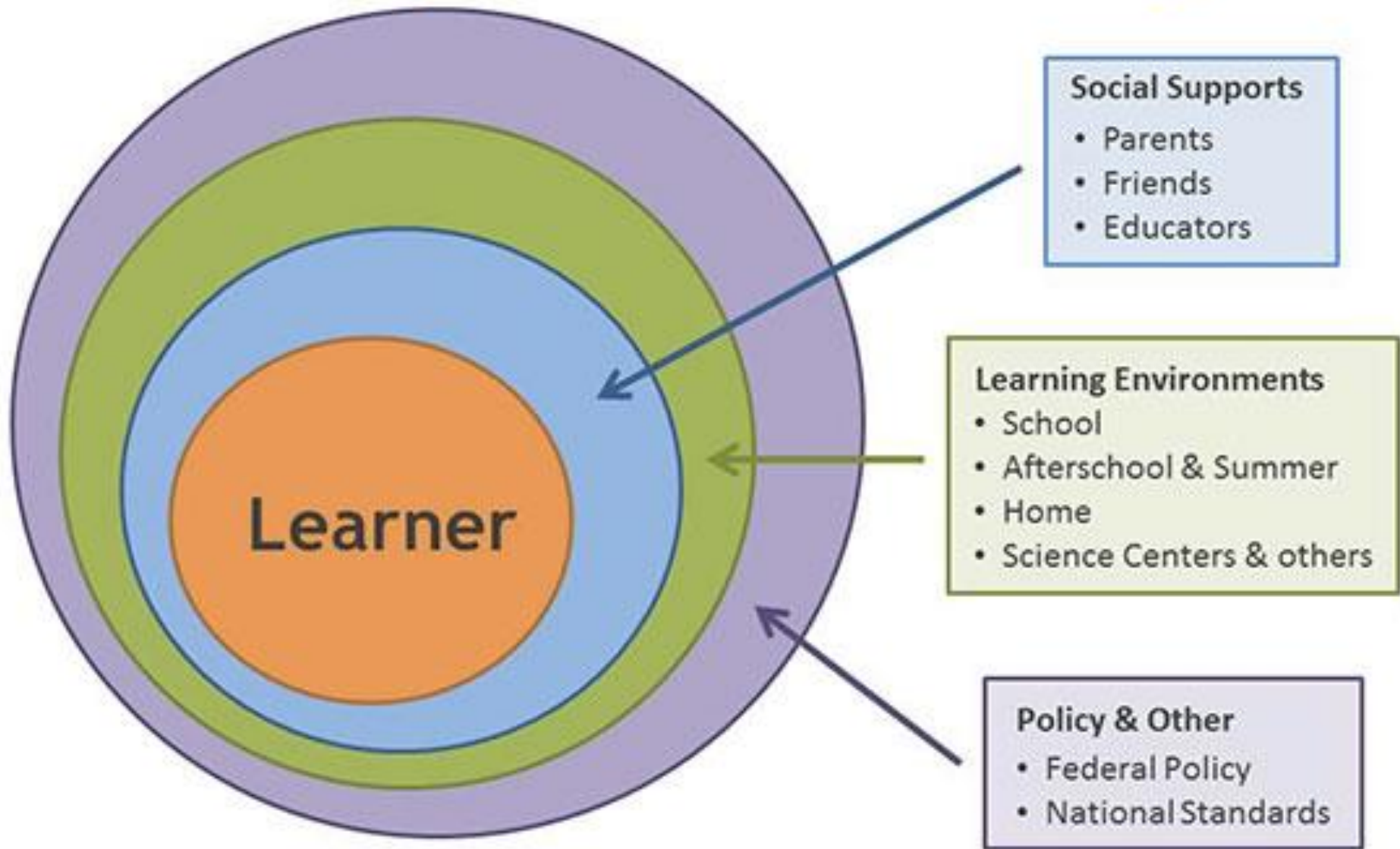


# Imagine the Future - iFuture





# “Ecosystem for Learning”



# identity



@bonstewart

# NETWORKED EDUCATORS

# LEARNERS



LOCAL





KIN LANE  
API EVANGELIST

# FUTURE of EDUCATION

LMS  
LIBRARY  
TEXTS

1st COMMERCE  
THEN SOCIAL  
AND DATA

APPLICATION PROGRAMMING INTERFACE

BUILDING BLOCKS  
of the WEB

educate the masses



# API

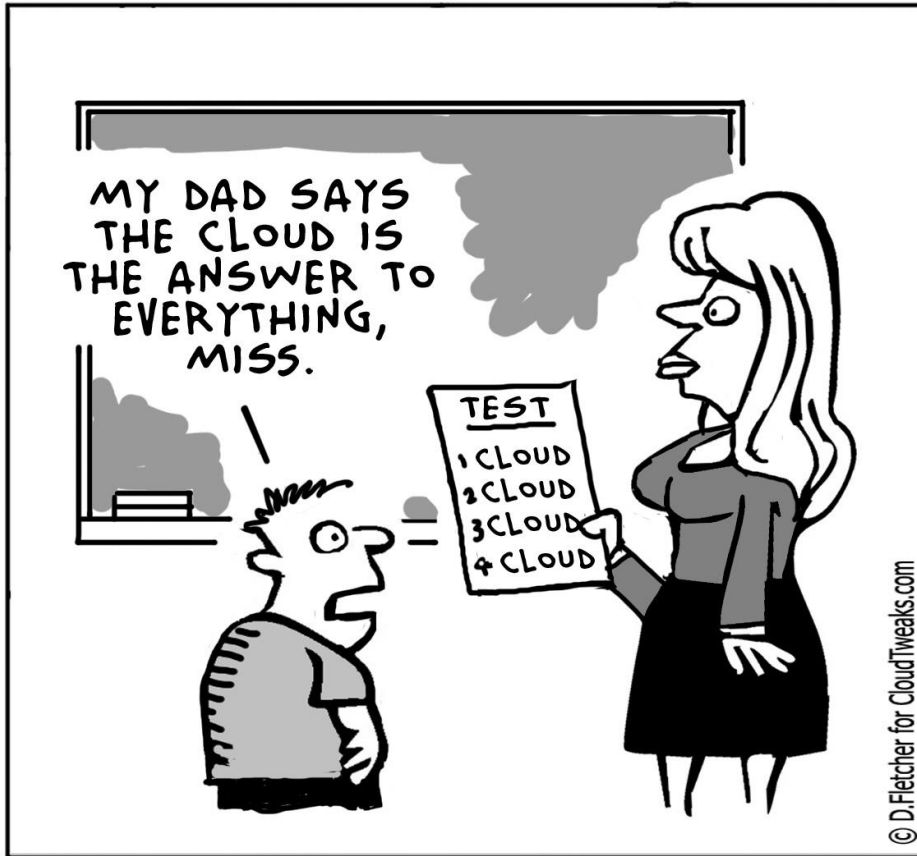
FOR ALL



#minding the future



# Education could be so different today..



Presentation @ <http://tinyurl.com/dlearn-map>

Cartoons from: <http://cloudtweaks.com/category/cloud-computing/cartoon/>

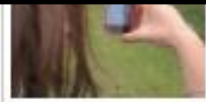
www.innovativelearning.co.uk



#### KARL DONERT ON TWITTER

-  RT @GeoSkills\_Plus #Geography hits all of these!! "10 Skills The Workforce of the Future Will Need" @GeoSkills\_Plus <http://t.co/eoaYuPXGaD> about 1 hour ago
-  Geo-cube: a #geographical journey #geood #edtech

**Karl Donert, Consultant  
Innovative Learning Network  
President EUROGEO  
kdonert@yahoo.com  
@karldonert**



some spatial citizenship tags  
teacher training these



EU Digital  
Agenda: where  
does education  
really fit in?



#### Spatial Citizenship

October 17, 2014 / 0  
Comments / in News  
/ by admin

#### CATEGORIES

Articles  
Featured  
Frontpage Article  
Images