ICT4Progress
from training young innovative people to the dissemination of new web technologies

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Innovative ICT Tools  Young People

How to involve the energy and the new vision of young people in the Global Project on “Measuring the Progress of Societies”? 
Innovative ICT Tools

- OECD 2\textsuperscript{nd} World Forum (Istanbul 2007): first Intl Exhibition on "Innovative tools to transform information into knowledge"

- Rome 2008: Special Conference on Dynamic Graphics for Presenting Statistical Indicators

Development of **innovative software for a change of culture** (e.g. supporting access to statistical data, interactive visualization, a fact-based analysis).

**Outcomes:**
1. Engage people, especially new generations
2. Unlock statistics
3. Improve transparency
4. Increase citizens’ numeracy and knowledge
5. Strengthen democracy
Innovative ICT Tools

**Example: Storytelling**

*Storytelling* provides **very effective communication of statistics (any age)**
- Use of advanced and entertaining ICTs
- Mix with old and new media (lever: the YouTube culture)
- Value to integration of data
- Compare local and global views
- **Map trajectories of human progress**

**Requires:**
- Access to Internet for ICT methods
- Access to Data - data web services
- Expertise (?)

Credits: Hans Roesling
GapMinder Foundation
http://www.gapminder.org/
WebValley is the FBK summer school for dissemination of interdisciplinary scientific research.

The WebValley formula is to create a team of enthusiast and motivated high school students (18 y) tutored by experienced researchers. The project activities are developed mostly by group work, in a high-tech lab located in a tiny Alpine village.

The team accepts a challenge by a scientist collaborator from Ecology, Biology or Social Sciences, and develops in three weeks a new web-based prototype for data analysis and management.
WebGIS on interactive SMART Board: high resolution imageries (Google Earth) are projected to geo-locate facilities and other elements of refugee/IDP camps. Digitalized objects and census data are used by web statistical analysis to highlight sectoral gaps.

WebGIS Tools for Humanitarian Response (with Intersos, 2007)
BASIC NOTIONS
1. Encourage each and every society to think about the meaning of progress
2. Inform citizens on the results of policies → democratization of societies
3. Transform figures into knowledge of concrete issues
4. GDP is not a satisfying measure for progress. Progress is a culture-dependent issue. Need for new progress indicators

CHALLENGE: How can we improve current ICT tools to measure the progress of societies?
• Use high quality data from statistical institutions. Use standard formats
• New ICT tools for engaging people in discussion: helping the comparison of different ideas of progress: interactive animated graphs for easy access to data + Web2.0 community approach
State of the Art

Gapminder

Swivel

ManyEyes

OpenPolis

MyExperiment

State of USA
An open source platform for interactive Graphs

- Flex
- data from many different sources: from SDMX (the OECD factbook), from SQL database, ecc..
- An interface inspired to GapMinder

Play with Us: beliefs vs data

YouMapp: collect on line survey data and project with Mult. Scaling

Storytelling on interactive boards

Name, logo, web2.0 WEBSITE → ict4progress

Life expectancy and political events in Uganda

Inspired by Hans Roesling
Is life getting better? Here you can discuss about progress. Use our tools and speak your mind!

- Play with us
- YouMapP
- GraphLaunch
- StoryTelling
After WebValley? MooGraph

- **Open Source tool for interactive dynamical graphs from statistical data**
  - Inspired to GapMinder
  - Spatial data and Statistical Indicators integrated

- **Written in ActionScript3 and PHP**
  Compile with Adobe Flex 3

- **A Flash application**
  - Runs on different web browsers
  - Instances can be embedded in other web pages

- **Also in self-installing stand-alone version**
  - Built with the suite Adobe Air
  - Available for MacOs, Linux, and Windows operating systems

http://www.ict4progress.org/projects/MooGraph
MooGraph: Features

Data can be directly read from

- Local source
  - SDMX Compact file
  - GNU-Plot file
- Remote source
  - PostgreSQL DB with PHP Adapter

http://www.ict4progress.org/projects/MooGraph
MooGraph: Features

Factbooks

trees of indicators, usual GapMinder features are provided, bubbles can interact with maps.

See also short animation (here: web embedded example)

http://www.ict4progress.org/projects/MooGraph
2009: The concept website proposed by the students has evolved into a dedicated one.

Towards the ICT Knowledge Base envisioned in Istanbul: a companion to larger audience resources such as WikiProgress.
Welcome to ICT4Progress.org

The function of this website is to allow you to share your ICT projects, the actual source code, application, tools and design with other developers or interested users from all around the world. This should be done with the spirit of open collaboration so that while sharing we also learn from each other. At the same time, we avoid duplicating the work of each other, but enable us to become a community of innovative technology experts, who wish to benefit from each other’s expertise and knowledge.

This site is also for anyone from anywhere in the world, who wants to pick-up and use these new technologies and ideas. ICT4Progress.org as a main place for all to come and find the application that best meets your needs.

This website has been created in response to the Global Project on Measuring the Progress of Societies, reflected on the real need for a community and collaboration website to allow the sharing of tools, applications, codes and ideas...read more

So let's share, learn and measure progress together! Learn more | Register

Available projects

sort by: last update | publication date | rating | numbers of view

MooGraph

categories: graphs
last update 16/10/2009 11:01 am
released on 29/04/2009 3:22 pm by Stefano Parmesan, Shamar Droghetti
numbers of view 462, 22 votes cast, 1 comment

DESCRIPTION:

Deliberately inspired to GapMinder, it represents the evolution of multivariate data in time by means of coloured bubbles of variable sizes on an (x,y) plot.

Differently from GapMinder, MooGraph is built using only open source libraries,...read more

view all projects
Future Goals

ICT4Progress: support a community’s comprehensive ICT environment. Facilitate collaborations with the goal of creating a set of tools that work with one another.

A hub for discussion and sharing of solutions:

• Technology
• Methods
• Links to developers’ project & source code
• Sections: Blog, Video, rankings, Data World

Encourage sw reuse and best practices

1. Open source license
2. Interoperable
3. Well Documented
   • Knowledge reuse vs. software reuse
   • Reuse of components
   • Standard Data Interfaces
Thanks!

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