

Good Practices Repository

of responsible ICT Research and Innovation with SSH input



Title of the initiative

ITUD - Interactive Tool for Urban Design

- **Description of the initiative:** Interactive Tool for Urban Design has been developed to fulfil the environmental and societal needs while defining, creating and revitalizing the urban environment.
- **Description of the objectives:** defining, creating and revitalizing the urban environment
- **Use/Usefulness:** defining, creating and revitalizing the urban environment
- **Description of ICT used/produced:** virtual reality, 3D virtual model
- **Organisations that benefit of the initiative:** Local Administrations, Private Consultancy
- **People that benefit of the initiative:** SSH scientists / researchers, Policy makers, General public level

interactive technology; urban design; virtual reality; 3D virtual model

Type of Output of Initiative

Events open to civic society

Joint events for ICT+SSH

Training/sharing information about RRI pillars

Training or sharing information about the integration of SSH advice into ICTs

Design of new SSH-inclusive ICTs



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° 769497

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Define / outline policies for integration of SSH advice into ICTs
Define guidelines for inclusion of SSH into ICTs
Establishment of a Community of interest
Other

Country(ies) involved

Slovakia

Geographic scale of the initiative

Local (Municipality)
Regional
National
International – potentially also international

Website

<http://www.itud.sk/>

Status of the initiative

Running
Ended

Users' target group(s)

EC and H2020 programme | ICT developers / researchers | SSH scientists / researchers | Policy makers | General public level | Local Administrations | Private Consultancy | Agencies | Industries | Other (specify)

RRI dimensions involved

It has been taken into account the ethical impact. (Ethics)
The requests of civil society have been evaluated. (Public Engagement)
It has been considered the gender and background balance when forming the working teams. (Gender Equality)
The representatives of civil society have been provided with the knowledge and skills to actively participate in the initiative. (Science Education)

The outcomes of the activities have been / are being published for free access. (Open Access)
Structures and procedures assuring the governance of one or more RRI pillars have been established. (Governance)

SSH disciplines involved

Arts | History | Languages and literature | Philosophy | Theology | Anthropology | Economics
| Human geography | Law | Political science | Psychology | Sociology

ICT domain involved in the initiative, both for the activities and as for output.

Components and systems, Cyber-Physical Systems, Miniaturised Electronic Systems, Thin,
Organic Electronics

Advanced Computing, customised computing systems, low power, new computing paradigms
Future Internet, Smart networks, new usage scenarios, 5G, Web entrepreneurship, Cloud,
Wireless

Content technologies and information management, big data, open data, languages learning
and teaching technologies, creative technologies, gaming and new interactions technologies

Robotics

Micro- and nano-electronic technologies, Photonics, new materials

Other

Method used to exchange information and knowledge to include the RRI principles into the ICT research and innovation processes

Cooperative workshops

Focus groups

Round tables

External revision of SSH experts

Face-to-face meetings

Adaptation of the (digital) content

Train on the best use of the solution

1-way communication (from SSH to ICT)

Other

Participation and engagement of people and organizations in the implementation of the initiative

They all participate into a funded project/initiative

Fee-taken / payment for participation

Voluntary basis

Through sectoral associations

As activity of their work

Through sectoral associations

Other

Number of people participating

-

Number of organizations participating

-

Number of events held

-

Number of researchers (ICT+SSH) involved

-

Number of women involved

-

Number of joint discussion themes

-

Who sustained the cost / effort

Only the owner/responsible

Shared among participants

Shared with target stakeholders

Other



How it is / has been funded this initiative?

- Public funding
- Co-funding (mixed private-public)
- Only Private
- Crowdsourcing
- Participant fees
- Other

Notes

ITUD 101 is a unique tool that has linked the latest interactive technologies, virtual reality, handheld analytics, and physical model analytics. Suddenly it is possible do what has not been possible so far. ITUD is designed to handle the entire team. With his intuitive work environment, one can communicate with a sketch and a working physical model. This makes it connect to an existing workflow effortlessly and instantly. One can create a 3D virtual model without a computer, analysing and simulating are ongoing, and one can meanwhile sketch notes. Now everyone can be involved in a creative process which is needed to develop or consult visions and ideas. ITUD easily combines manual sketch, physical work model and virtual model with ongoing mathematical analysis. What has been separated is clearly interrelated with each other. Does it feel like being in the 21st century? Adding an analysis of glare, wind flow, or urban economics, assessing compliance with a land-use plan or converting the population, and it is right. ITUD, thanks to state-of-the-art technology and virtual reality, provides every inexpressible real pedestrian experience. If one feels that the scene needs to be edited, nothing is easier. Only thanks to open discussions supported by objective analyses or arguments we will achieve a great result. So why not use it. ITUD will provide direct feedback in the form of simulations or analyses in the first creative stages of the design. Continuity and interconnection of analysis and creation will save tremendous amount of time and will encourage its users to look for more variants. The proposal will be more objective, more sophisticated and better in the end. Changes in the design will not make one worry, just the opposite. Because everyone enjoys better quality work in less time. This is what is called progress. Four ITUD bases will enable users to solve problems from regions, through the development of cities, neighbourhoods or areas to detailed areas such as the street, square or courtyard. Each of the four environments has its own support module to help keep the scenario with clear rules and leads to a clear result in a few steps.

