



KD 7 OPEN DAYS FOR CITIZENS AND PUPILS

GEO-C - JOINT DOCTORATE IN GEOINFORMATICS: ENABLING OPEN CITIES

FUNDED BY THE EU - GRANT AGREEMENT NUMBER 642332 — GEO-C — H2020-MSCA-ITN-2014.

FEBRUARY 19TH, 2018

AUTHOR(S): AURIOL DEGBELO AND CHRISTOPH BROX (IFGI-WWU)

In addition to disseminate project results to audiences in Research and Industry, the GEO-C doctoral training program foresaw the organization of at least three events (*Open Days*) targeting citizens and/or pupils. These were intended to serve as a communication platform between the general public and researchers both from within GEO-C and from without. So far, GEO-C has organized six events of such a type (instead of the three initially planned). We estimate the audience reached through these six events to be in order of three thousands of people. Example activities done during these events include presentations, round-table discussions and joint-prototype development with the participants. Please find below an overview, and in the annexes the respective documentations:

No.	University	Title	URL	Date
1	WWU	Wissenschaft kontrovers, bringing together experts and citizens to discuss about the future of Muenster, co-organized by GEO-C (Auriol Degbelo)	http://geo-c.uji.es/blog/2015/11/03/geo-c-brings-together-experts-and-citizens-for-a-roundtable-discussion/	17.11.2015
2	WWU	Code week 2016 – hackathon for pupils (7th class or higher) for implementing prototypes of tomorrow's cities (Angela Schwering)	https://www.sensebox.de/codeweek	18. - 20.10.2016
3	UNL	GEO-C presentation at Zoom Smart Cities 2016 open platform, Lisbon.	http://zoomsmartcities.com/	18.- 19.05.2016
4	UJI	Presentation of GEO-C to pupils and teachers at FIRUJICENCIA 2017 (Carlos Granell, Sergi Trilles)	https://sites.google.com/site/firujicencia/	06.04.2017
5	WWU	Participatory workshop activities with the pupils from the Hans-Böckler-Berufskolleg (Auriol Degbelo, Ana Bustamante)	http://geo-c.uji.es/blog/2018/02/13/geo-c-and-participation-2016-workshops-with-young-refugees-in-munster/	30.09.- 13.10.2016
6	WWU	Design Thinking Workshops with refugee pupils (Ana Bustamante, Mehrnaz Ataei, Auriol Degbelo)	http://geo-c.uji.es/blog/2018/02/13/geo-c-and-participation-2017-workshops-on-design-thinking-with-young-refugees-in-munster/	15.11.2017

Annexes

Please find in the following the documentation of

1. Wissenschaft kontrovers, bringing together experts and citizens to discuss about the future of Muenster, co-organized by GEO-C
2. Code week 2016 – hackathon for pupils (7th class or higher) for implementing prototypes of tomorrow's cities, Münster
3. GEO-C presentation at Zoom Smart Cities 2016 open platform, Lisbon
4. Presentation of GEO-C to pupils and teachers at FIRUJICENCIA 2017, Spain
5. Participatory workshop activities with the pupils from the Hans-Böckler-Berufskolleg, Münster, 2016
6. Design Thinking Workshops with refugee pupils, Münster, 2017

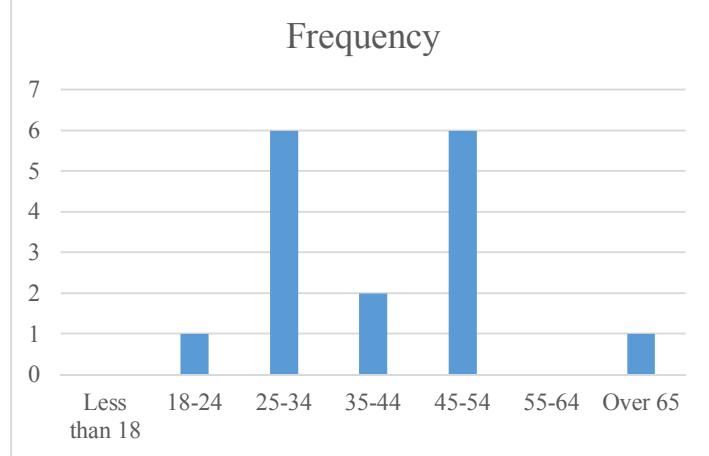
Wissenschaft Kontrovers 2015 – A Summary Report

Date, place, and goal

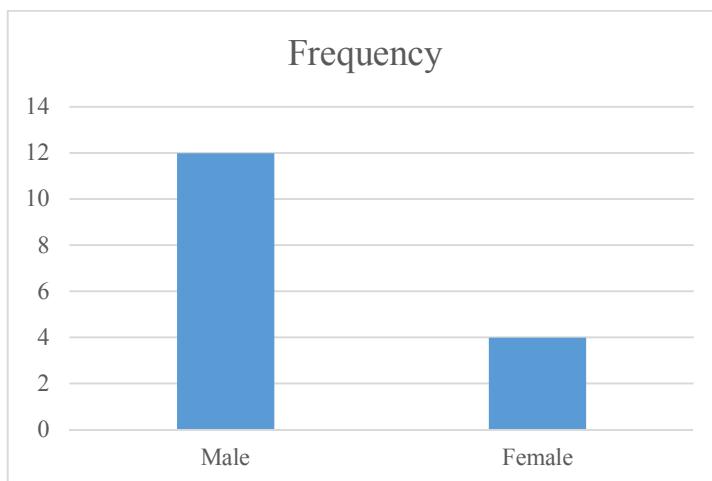
The event was held on November 17, 2015 at the Institute for Geoinformatics and had the goal of bringing together experts and citizens to discuss about the future of Muenster. In particular, the discussion was centered on the pros and cons of online voting, in a “Nachtcafé” style.

Participants

- The panel (3 people)
 - Prof. Dr. Mesut Günes, Institute of Computer Science, University of Muenster (Expert)
 - Prof. Dr. Paul Reuber, Institute of Geography, University of Muenster (Expert)
 - Thomas Milse (Moderator)
- Organization (2 people)
 - Dr. Auriol Degbelo (Institute for Geoinformatics, University of Muenster)
 - Martin Gora (Wissenschaft im Dialog)
- 16 citizens with diverse backgrounds (as the three histograms below show) were in the audience
 - Age

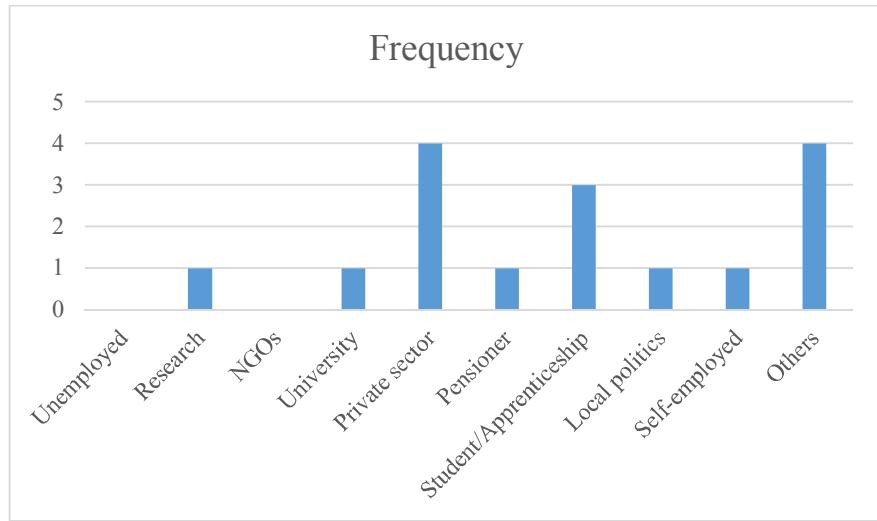


- Gender



Wissenschaft Kontrovers 2015 – A Summary Report

- Profession



Summary

With the help of questions from the moderator, the two experts could voice their views about the topic, pointing to advantages (e.g. faster processing) and limitations of technologies (e.g. the digital divide). Some participants commented at the end of the event that the topic of online voting was not discussed enough because of some deviations of the panel. Yet, the evening has yielded some useful insights into reservations from citizens regarding online voting:

- Not every citizen likes the idea: for example about 40 % of the participants raised their hands when the moderator asked the audience who will vote online if s/he was given the opportunity to do so
- Online voting would enable the storage of the citizen's opinion in a database, and gives therefore the possibility - to everyone having access to the information (e.g. Hackers, or party members) - to know the person for whom a citizen has voted at a specific election. Anonymity becomes thus "endangered"
- Online voting would not necessarily mean 'better' voting, i.e. citizens making more rational decisions, or better choices regarding the 'appropriate' candidate. The factors motivating citizens, as well as their leaning towards a given candidate are the result of social, moral, cultural and personal considerations, not technological ones
- Online voting comes also with the additional drawback that the possibility to recount votes (i.e. when mistakes are made) disappears
- A participant commented that he would not vote online, unless the software processing the result is made openly available, and he (or some of his acquaintances) knows how the software works.

In summary, the audience (and therefore some citizens from Muenster) had some reservations with respect to online voting, but a way of dealing with these reservations is to provide some open source software to process the votes, and give some guarantees regarding the anonymity of the votes. Further discussions involving all actors (i.e. citizens, the state, the private sector, and so on) are needed to better understand the implications of citizens voting through 'clicking on a computer mouse'.

Veranstaltungsort

Institut für Geoinformatik
Heisenbergstraße 2
48149 Münster

Der Eintritt ist frei!

Kontakt

Wissenschaft im Dialog gGmbH
kontrovers@w-i-d.de
Tel.: 030 – 2062295-61

Informationen

www.wissenschaft-kontrovers.de
 wissenschaftimdialog
 wissimdialog

Wissenschaftsjahr 2015 – Zukunftsstadt

www.wissenschaftsjahr-zukunftsstadt.de
 wissenschaftsjahr
 wissenschaftsjahr

Gestaltung: Philipp Strieglger

GEFÖRDERT VOM



Bundesministerium
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Institute for Geoinformatics
University of Münster

GEO-C

PARTNER



Leopoldina
Nationale Akademie
der Wissenschaften

Bürgerbeteiligung per Mausklick?

Wissenschaftliches Nachtcafé
zur Zukunftsstadt Münster

Diskutieren Sie mit!

Institut für Geoinformatik
Dienstag, 17. November 2015
19:00 – 20:30 Uhr

Eine Initiative des Bundesministeriums
für Bildung und Forschung

Wissenschaftsjahr 2015

Zukunftsstadt



Wissenschaft kontrovers im Wissenschaftsjahr 2015 – Zukunftsstadt

Zwei Drittel der Deutschen leben in Städten – Tendenz steigend. Diese Entwicklung stellt unsere Gesellschaft vor neue Herausforderungen: Wie wollen wir uns in Zukunft fortbewegen? Wie und wo werden wir arbeiten? Wie reagieren wir auf Klimaveränderungen? Was macht unsere Stadt zukunftsfähig und lebenswert? Fragen wie diese werden im Wissenschaftsjahr 2015 – Zukunftsstadt kontrovers diskutiert – digital und analog. Wissenschaft im Dialog organisiert dazu gemeinsam mit der Nationalen Akademie der Wissenschaften Leopoldina und dem Haus der Wissenschaft Braunschweig die Diskussionsreihe und Online-Plattform „Wissenschaft kontrovers“, in der Bürgerinnen und Bürger auf Augenhöhe mit Expertinnen und Experten diskutieren.

Ihre Meinung ist uns wichtig!

Bereichern Sie die Diskussion und stellen Sie Ihre persönlichen Fragen: Per Kommentar auf www.wissenschaft-kontrovers.de oder als Teilnehmer unseres Wissenschaftlichen Nachtcafés. Die Positionen der Experten stellen wir bereits vor der Veranstaltung online zur Debatte. Dort können Sie anschließend auch die Ergebnisse einsehen und kommentieren.

Das Wissenschaftliche Nachtcafé

Im Wissenschaftlichen Nachtcafé bringen wir Interessierte mit Forscherinnen und Forschern ins Gespräch. Nach einem Impulsbeitrag tauschen sich die Teilnehmerinnen und Teilnehmer in entspannter Cafehaus-Atmosphäre in kleiner Runde an ihren Tischen aus. Dort entwickeln sich Fragen und Ideen, die anschließend in großer Runde diskutiert werden.

Bürgerbeteiligung per Mausklick?

Kommunen gelten als Fundament der Demokratie. Hier wird Politik im Kleinen, aber mit großer Wirkung und oft auch mit der Hilfe von Bürgern gemacht. Die Anzahl der Beteiligungsprojekte in den Städten steigt, trotzdem ist die politische Teilhabe der Bürgerinnen und Bürger insgesamt noch ausbaufähig. Digitale Netzwerke ermöglichen einen leichteren Zugang zu Themen, die die Stadt bewegen, zu Abstimmungen und Initiativen.

Welche Rolle spielt Bürgerbeteiligung in Münster? Welche Erwartungen haben die Bewohner an eine bürgernahe Stadt? Wie wichtig sind Informations- und Kommunikationstechnologien für die Teilhabe an städtischen Entscheidungen? Wie können Transparenz und Datenschutz gewahrt bleiben? Die Münsteranerinnen und Münsteraner sind eingeladen, ihre Wünsche und Sorgen zur (digitalen) Bürgerbeteiligung zu diskutieren.

Expertinnen und Experten

Prof. Paul Reuber

Institut für Geographie, AG Politische Geographie und Sozialgeographie der Westfälischen Wilhelms-Universität Münster

Prof. Dr. Mesut Günes

Institut für Informatik, Fachbereich Mathematik und Informatik der Westfälischen Wilhelms-Universität Münster

Moderation

Thomas Milse



senseBox: hacking, making & coding @ CodeWeek 2016

Sensoren verbauen, programmieren, Daten übers Internet schicken, Prototypen für die Stadt von morgen bauen. Mit der senseBox, die auf der offenen Plattform Arduino basiert, lernt ihr in der CodeWeek, wie Schaltungen gebaut und programmiert werden. In kleinen Teams werdet ihr dann eure eigenen Projekte realisieren. Vorkenntnisse sind nicht notwendig.



(/images/codeweek/codeweek2.jpg)



(/images/codeweek/codeweek3.jpg)

Die senseBox, mit der während der CodeWeek gearbeitet wird, ist ein Do-It-Yourself-Bausatz, mit dem stationäre oder mobile Sensoren programmiert werden. Mit der Box ist es möglich, z.B. Umweltdaten über Klima, Luftqualität, oder Verkehrsaufkommen positionsbezogen messen zu können und die Daten als Open Data im Internet als statistische oder räumliche Daten zur Verfügung zu stellen. Mit der Box könnt ihr also eure eigenen Forschungsprojekte an den Start bringen und die nötigen Daten sammeln.

Der Workshop richtet sich an Schülerinnen und Schüler ab der 7. Klasse. Nach oben hin ist alles offen!

WANN?

18. bis 20.10.2016 jeweils von 9 bis 13 Uhr

Wo?

Institut für Geoinformatik
Heisenbergstraße 2
48149 Münster

WIE TEILNEHMEN?

Wenn Du noch keine 18 bist, musst Du für deine Anmeldung eine Einverständniserklärung von einer erziehungsberechtigten Person unterschreiben lassen.

Einverständniserklärung (/docs/einverstaendniserklaerung_codeweek.pdf)

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([HTTPS://FORM.JOTFORME.COM/60682178338362](https://form.jotforme.com/60682178338362))

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(<http://www.gi-at-school.de>)



ifgi
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(<https://ifgi.uni-muenster.de>)



(<https://www.uni-muenster.de/>)

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(<https://www.wissenschaftsjahr-zukunftsstadt.de>)



(<http://www.photonik-campus.de/make-light/>)

Presse



(<http://www.heise.de>)



(<http://iq.intel.de/>)



(<https://www.wdr.de>)



(<https://www.rbb-online.de>)



(<http://www.deutschlandradio.de>)

FERNSEHEN

Make: (<http://makezine.com/>)



(<http://smart-magazine.com/en/>)



(<http://www.rp-online.de/>)



(<http://www.aktion-mensch.de/>)

Neuigkeiten

Hackathon (</hackathon>)

Hintergrund

Über uns

(<http://www.sensebox.de/de/background/>)

Philosophie

(<http://www.sensebox.de/de/background/#philosophie>)

Team

(<http://www.sensebox.de/de/background/#team>)

Auszeichnungen

(<http://www.sensebox.de/de/awards/>)

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und Kontakt
(http://www.sensebox.de/de/contact/)

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GEO-C: OPEN SMART CITIES PLATFORM



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GEO-C is funded by the European Commission within the Marie Skłodowska-Curie Actions, International Training Networks (ITN), European Joint Doctorates (EJD). The funding period is January 1, 2015 - December 31, 2018, Grant Agreement number 642332-GEO-C-H2020-MSCA-ITN-2014.

Associated partners

Name	Location	Web site
Stadt Münster (Münster City Council)	Münster, Germany	www.muenster.de/stadt/tourismus/en//
52 North GmbH	Münster, Germany	www.52north.org
Hansa Luftbild	Münster, Germany	www.hansaluftbild.de
Câmara Municipal de Lisboa (Lisbon City Council)	Lisboa, Portugal	www.cm-lisboa.pt
Esri Portugal	Lisboa, Portugal	www.esriportugal.pt
SAS	Lisboa, Portugal	www.sas.com/portugal
Ayuntamiento de Castellón (Castellón City Council)	Castellón, Spain	www.castello.es
Urbiotica S.L.	Barcelona, Spain	www.urbiotica.com
Prodevelop S.L.	Valencia, Spain	www.prodevelop.es

OVERVIEW

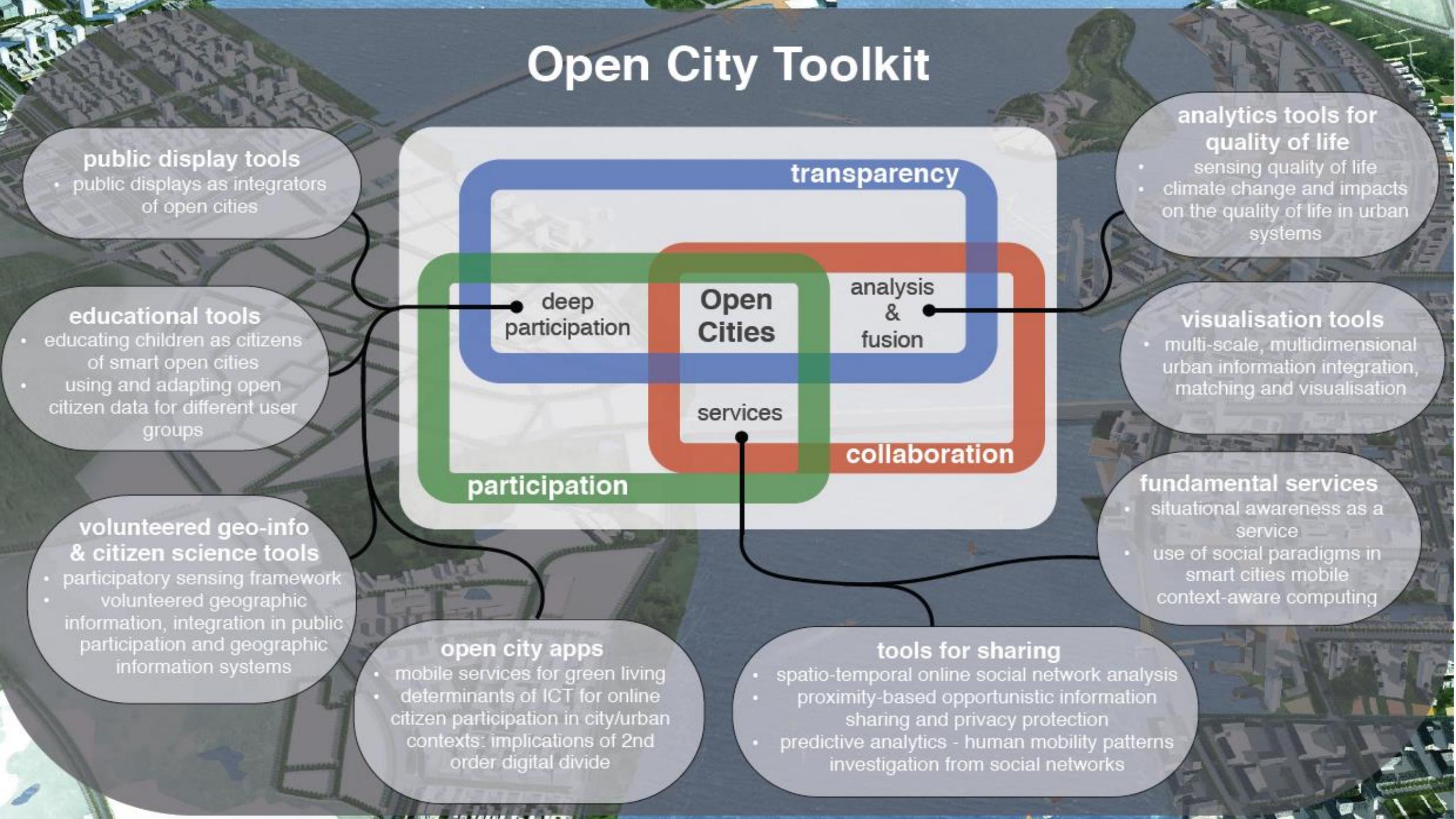
- In recent years, the term "smart **cities**" has been coined for initiatives that monitor and analyze different aspects of urban life, and manage service provision intelligently.
- GEO-C aims to contribute methods and tools to realize smart and open cities, in which all groups of society can participate at all levels and benefit in many ways.
- The complementary strands of research in GEO-C will lead to an improved understanding of how to build open cities and will produce a prototypical open city toolkit.

PROJECT GOALS

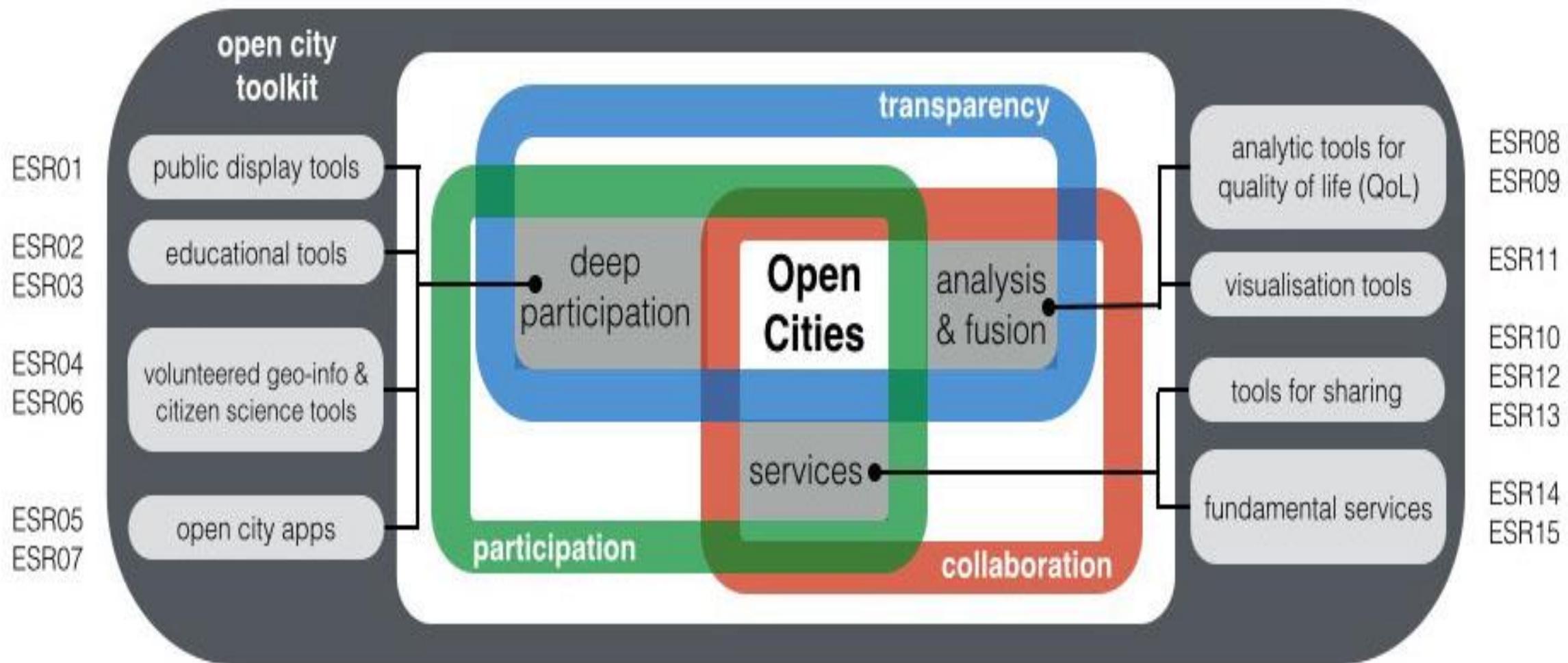
- train the next generation of smart city experts in a multi-disciplinary program
- address key challenges of rapidly changing cities with novel participatory technologies
- facilitate the implementation of open cities via an open source toolkit



Open City Toolkit



The Open City Toolkit, its core components and the three main research work packages



- ESR 01: Public displays as integrators of open cities
- ESR 02: Educating children as citizens of smart open cities
- ESR 03: Using and adapting open citizen data for different user groups
- ESR 04: Volunteered geographic information, integration in public participation and geographic information systems
- ESR 05: Determinants of ICT for online citizen participation in city/urban contexts: implications of 2nd order digital divide
- ESR 06: Participatory sensing framework
- ESR 07: Mobile services for green living
- ESR 08: Sensing quality of life
- ESR 09: Climate change and impacts on the quality of life in urban systems
- ESR 10: Predictive analytics - human mobility patterns investigation from social networks
- ESR 11: Multi-scale, multidimensional urban information integration, matching and visualization
- ESR 12: Spatio-Temporal Online Social Network Analysis
- ESR 13: Proximity-based opportunistic information sharing and privacy protection
- ESR 14: Use of social paradigms in smart cities mobile context-aware computing
- ESR 15: Situational awareness as a service

- ESR 04: Volunteered geographic information, integration in public participation and geographic information systems.
- ESR 05: Determinants of ICT for online citizen participation in city/urban contexts: implications of 2nd order digital divide.
- ESR 09: Climate change and impacts on the quality of life in urban systems.
- ESR 10: Predictive analytics - human mobility patterns investigation from social networks.
- ESR 14: Use of social paradigms in smart cities mobile context-aware computing.

Research strands

Research questions

Deep participation

How to enable all citizens to participate in and benefit from smart cities?

Analysis and fusion

How to determine quality of life and key performance indicators of smart cities?

Services

How to realise fundamental services in smart cities?

Overarching questions

How to enable all stakeholders to contribute to smart cities? How to facilitate transparency and openness of all processes, decisions and data in smart open cities? What insights can be gained from open data on smart cities, and how to best make use of such data?

Key outcomes

Methods and approaches to realise smart and open cities, prototypically implemented in an open source toolkit to facilitate uptake.

THANK
YOU !



Questions
Please!



UJI shows the GEO-C project to two thousand students during the FIRAUJICIENCIA '17

■ 25th April 2017 (<http://geo-c.uji.es/blog/2017/04/25/>) ▾ geoc (<http://geo-c.uji.es/blog/author/geoc/>)

On April 6th, GEO-C UJI team (GEOTEC) has participated in the third edition of FIRAUJICIENCIA. There, we had the opportunity to show our project to more than around two thousand students and teachers. More than sixty workshops have filled the sports hall of the Universitat Jaume I with science. Also, GEOTEC showed other projects, like Sucre4Kids, where the students learn to program using electronic components and a visual programming language.



(<http://geo-c.uji.es/blog/2017/04/25/uji-shows-the-geo-c-project-to-two-thousand-students-during-the-firaujiciencia-17/experimento03-april2017-firujiciencia-6/#main>)



(<http://geo-c.uji.es/blog/2017/04/25/uji-shows-the-geo-c-project-to-two-thousand-students-during-the-firaujiciencia-17/experimento03-april2017-firujiciencia-3/#main>)

The scientific fair has gathered at the Universitat Jaume I students and lecturers from more than thirty educational centres throughout the province who have had the opportunity to learn more about dinosaurs, urban waste, electromagnetism, meteorites, water or robots.

■ Events (<http://geo-c.uji.es/blog/category/events/>), General (<http://geo-c.uji.es/blog/category/general/>)

🔗 permalink (<http://geo-c.uji.es/blog/2017/04/25/uji-shows-the-geo-c-project-to-two-thousand-students-during-the-firaujiciencia-17/>)

← GEO-C ESRs developed a map survey at Lisbon's Freguesia de São Domingos de Benfica meeting (<http://geo-c.uji.es/blog/2017/04/21/geo-c-esrs-developed-a-map-survey-at-lisbons-freguesia-de-sao-domingos-de-benfica-meeting/>)

GEO-C students organised 5th Open Data for Open Cities participatory workshop at Agile 2017 #agilewag2017 → (<http://geo-c.uji.es/blog/2017/05/19/geo-c-students-organised-5th-open-data-for-open-cities-participatory-workshop-at-agile-2017-agilewag2017/>)

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Recent Posts

- Feature-centric algorithms for georeferenced video search (<http://geo-c.uji.es/blog/2017/09/27/feature-centric-algorithms-for-georeferenced-video-search/>)
- GEO-C appears in a UJI magazine "La Corriola" (<http://geo-c.uji.es/blog/2017/09/11/geo-c-appears-in-a-iji-magazine-la-corriola/>)
- Publication accepted for SEMANTICS 2017! (<http://geo-c.uji.es/blog/2017/08/09/publication-accepted-for-semantics-2017/>)
- GEO-C at Portugal Science and Technology Fair 2017 (<http://geo-c.uji.es/blog/2017/07/10/geo-c-at-portugal-science-and-technology-fair-2017/>)
- PHD MASTER CLASS GEO-C (<http://geo-c.uji.es/blog/2017/07/10/phd-master-class-geo-c/>)

Recent Comments

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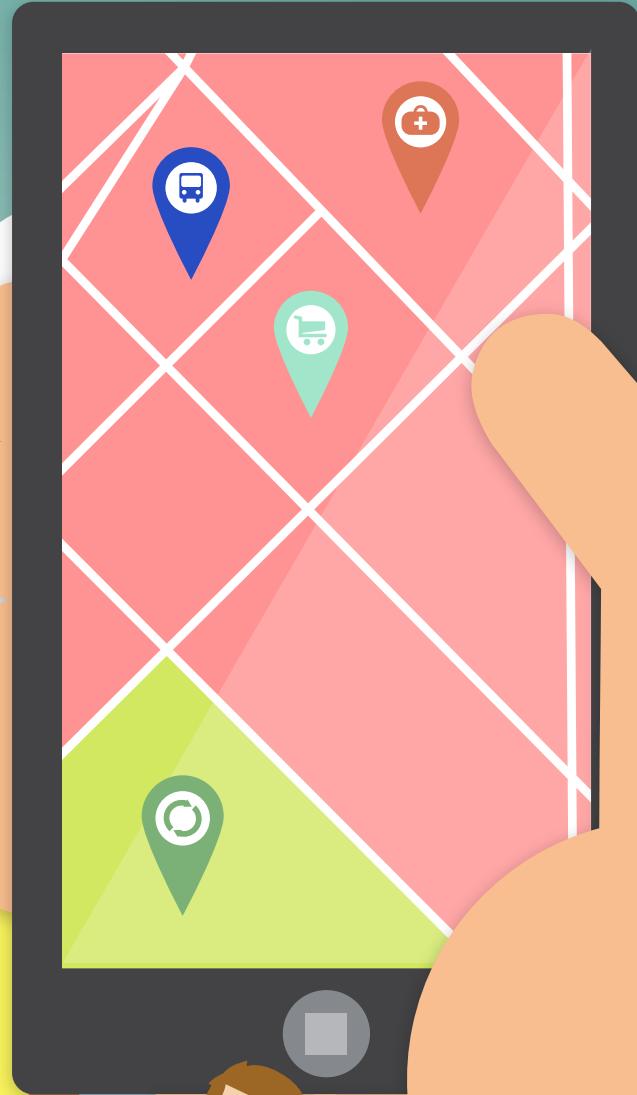
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GEO-C Project

El proyecto GEO-C pretende aportar métodos y herramientas para alcanzar ciudades inteligentes y abiertas. Para ello define como ejes la participación, la transparencia y la colaboración, que serán claves para la vertebración del proyecto. Además, utiliza las ciencias geoespaciales como medio para conseguir las ciudades del futuro.



GEO-C and Participation: Workshops with young refugees at HBBK

■ 19th October 2016 (<http://geo-c.uji.es/blog/2016/10/19/>)  [esr](http://geo-c.uji.es/blog/author/esr/) (<http://geo-c.uji.es/blog/author/esr/>)



(<http://geo-c.uji.es/blog/wp-content/uploads/2016/10/P1020817-e1476892590621.jpg>) From September 13 to October 7, 2016, the Geo-C team at WWU in Münster, Germany conducted several participatory workshops and activities with over 50 students from the International (i.e. over 25 students) and IT classes* (24 students) at the Hans-Böckler-Berufskolleg (HBBK). The overall goal of these activities was to generate participatory spaces in which it was possible to identify the challenges and needs of the group of young refugees and asylum seekers, as well as a potential ICT mobile tool to aid them while using open geospatial data during their initial stages of their resettlement in Münster. In total, we held five workshops, one field work, and one class session at the HBBK. All of these activities were done with the collaboration of the HBBK staff, particularly from Antje Semmelmann (school administration), Ralf Börger (IT teacher) and Gunter Hake (coordinator of the IT department).

Some of the preliminary results were:

1. Initially identified needs of the young refugees: 1) learning the local language as soon as they arrived; 2) the urge for establishing contact with local people not just for help but networking and communication, and 3) the importance of ICT apps that are "easy to use."
2. A set of several essential origin points and destinations were collected, and each of the groups established the information related to it (panoramic pictures, decision and confirmation points and referenced objects).
3. More than 13 initial design drafts done by the young refugees which were related to the type of content and "visualization" of information on the ICT open tool to support their initial resettlement stages in Münster.

An overview of the collected field data can be found here: <http://giv-oct.uni-muenster.de:8083>

*This class classification is the official designation at the HBBK. The international class consists mainly of students who have been formally recognized as refugees .



(<http://geo-c.uji.es/blog/wp-content/uploads/2016/10/P1020769.jpg>)
Workshop No.3 – Joint Workshop
(International and IT classes)

■ Students (<http://geo-c.uji.es/blog/category/students/>)

◆ Participatory Design (<http://geo-c.uji.es/blog/tag/participatory-design/>), ESR 03 (<http://geo-c.uji.es/blog/tag/esr-03/>), #Workshops (<http://geo-c.uji.es/blog/tag/workshops/>),

#Refugees (<http://geo-c.uji.es/blog/tag/refugees/>), ifgi (<http://geo-c.uji.es/blog/tag/ifgi/>)

🔗 permalink (<http://geo-c.uji.es/blog/2016/10/19/geo-c-and-participation-workshops-with-young-refugees-at-hbbk/>)

← GEO-C in Oxford Barracks Project (<http://geo-c.uji.es/blog/2016/09/14/geo-c-in-oxford-barracks-project/>)

GeoC – Spain, present in Vespucci Initiative 2016. Sensors, Smart Cities, Open Data and Mobility. → (<http://geo-c.uji.es/blog/2016/10/20/geoc-spain-present-in-vespucci-initiative-2016-sensors-smart-cities-open-data-and-mobility/>)

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- GEO-C at Portugal Science and Technology Fair 2017 (<http://geo-c.uji.es/blog/2017/07/10/geo-c-at-portugal-science-and-technology-fair-2017/>)
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GEO-C and Participation: Workshops on ‘Design Thinking’ with young refugees in Münster

📅 13th February 2018 (<http://geo-c.iji.es/blog/2018/02/13/>) 🚩 esr
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Four participatory workshops in ‘Design Thinking’ were conducted by the Geo-C team at WWU with over 18 young refugees and asylum seekers in Münster. Each of the sessions was half-day long, and they were done as extracurricular activities from the school. The workshops were held at the Institute for Geoinformatics from mid-October to mid-November, 2017. These workshops aimed to assess a set of participatory methodologies draw from a combination of elements from participatory design, participatory

(action) research, and didactics to provide ‘safe spaces’ for learning and co-creation of technologies for them with young refugees and asylum seekers.

During these workshops, we also aimed to understand the awareness of young refugees and asylum seekers regarding the management of their personal and location data when they use digital services. Several exploratory methods were used for this, as well as for introducing, after the ‘exploratory’ assessment, the concept of personal and location data privacy to them. The goal of this exercise was to evaluate if such strategy modified somehow the way they ideate and design digital services to support them in their (re)settlement in Münster.

At the end of the workshops, attendance certificates for participating in the workshops in ‘Design Thinking’ were provided to the young refugees and asylum seekers who participated. All of these activities were done with the collaboration of the school staff, mainly from the school administration and teachers.

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