A global multidisciplinary network on housing research and learning

WP2 Housing Research Subnetwork meeting 2

Sašo Medved & Suzana Domjan, University of Ljubljana, Slovenia
Karim Hadjri, University of Central Lancashire, Preston, UK
Leandro Madrazo, La Salle School of Architecture, Barcelona, Spain

Ljubljana, 16 June 2014
University of Ljubljana

- University of was established in 1919 on the foundations of a long-established pedagogical tradition.
- It is a very large university, with 50,000 undergraduate and postgraduate students, taking over 300 different undergraduate and postgraduate study programmes.
- University of Ljubljana has 23 faculties and 3 arts academies.
Faculty of Mechanical Engineering

- The study of technical sciences in Slovenia began in 1767 with lectures in mechanics at first-degree study institutions, this followed the Gymnasium, which was founded in 1563 in Ljubljana.
- On July 23rd 1919 the Faculties of Law, Arts and Sciences, Engineering and Medicine were founded.
- An independent Faculty of Mechanical Engineering was established in 1960.
Zoran Rant (1904–1972)

- Zoran Rant was a Slovene professor at Faculty of Mechanical Engineering. He invented terms known today as "exergy and anergy".
- The term "exergy" was coined in 1956 by Zoran Rant by using the Greek ex and ergon meaning "from work".
- Beside thermodynamics nowadays exergy principle is very important in buildings analyses as well in connection with low-exergy technologies that use renewable energy sources like environmental cold and heat.
<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.30-9.00</td>
<td>Arrival and coffee</td>
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<tr>
<td>9.00-9.15</td>
<td>Welcome and introduction</td>
<td>Suzana &amp; Sašo</td>
</tr>
<tr>
<td>9:15-9:30</td>
<td>New partner NOVA presentation</td>
<td>Viggo</td>
</tr>
<tr>
<td>9:30-10:00</td>
<td>WP2 progress report - Readings &amp; Oikopedia entries</td>
<td>Karim</td>
</tr>
<tr>
<td>10:00-10:30</td>
<td>Oikopedia development - format and content</td>
<td>Karim</td>
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<td>10:30-11:00</td>
<td>Coffee break</td>
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<tr>
<td>11:00-12:30</td>
<td>Optimising collaborative work through the research matrix</td>
<td>Karim</td>
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<tr>
<td>12:30-13:00</td>
<td>WP2 outstanding and future tasks</td>
<td>Karim &amp; Leandro</td>
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<tr>
<td>13:00-14:30</td>
<td>Lunch break</td>
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<tr>
<td>14:30-15:30</td>
<td>Thematic links between Research and Pedagogy</td>
<td>Leandro</td>
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<tr>
<td>15:30-16:30</td>
<td>Fostering collaboration with other WPs</td>
<td>Leandro</td>
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<tr>
<td>16:30-17:00</td>
<td>Coffee break</td>
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<tr>
<td>17:00-17:30</td>
<td>Project management and next meeting plan</td>
<td>Leandro</td>
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<tr>
<td>17:30-18.30</td>
<td>Conclusions and discussions</td>
<td>Suzana &amp; Sašo</td>
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<td>20:00</td>
<td>Dinner at the city castle</td>
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• wi-fi: network: FS-GUEST
  password: 6SGq73CwVg

• lunch:  13:00 Gostilnica XXI, Rimska 21

• dinner:  20:00 Gostilna na Gradu, at the city castle
  access by funicular railway or on foot

**Tuesday 17.6.2014**
• meeting point at Faculty of Mechanical Engineering at 9:00
• visit of “self-sufficient living cell”
• sight-seeing tour (optional)
The team,

• Sašo Medved, PhD, Professor at
  • Faculty of Mechanical Engineering UL,
  • Faculty of Architecture UL, and
  • Faculty of Health Sciences UL
• Ciril Arkar, PhD, Assistant Professor
• Boris Vidrih, PhD, Assistant
• Suzana Domjan, Researcher
The institution,

- HiOA is Norway's largest state university college, with 16,000 students and 1,850 employees. HiOA provides education in health and social services, education, and public administration, media, design, arts, and for technical and business administrative positions in business and industry.

- NOVA is an applied Social Research Institute with about 80 social scientists. Most of our work belong under the heading Welfare Research. NOVA’s twofold ambition is to provide and interpret knowledge for policymakers and other stakeholders, and at the same time to participate in the academic accumulation of knowledge.
The team,
• Viggo Nordvik, Economist
• Hans Christian Sandlie, Sociologist
• Lena Magnusson Turner, Human Geographer
• Kristin Aarland, Economist
Key activities

• Neighbourhood dynamics, inertia and change

• Social inequality in housing, causes and consequences

• Housing policy for disadvantaged and vulnerable families
Action Plan agreed at 1st meeting:

- Readings on contemporary housing research (x3; M6; M18; M30)
- OIKOPEDIA entries (x3; M12, M24, M36)
## Dropbox

### WP2_RESEARCH

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<tr>
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<tr>
<td>Oikopedia</td>
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<td>Position papers</td>
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<tr>
<td>Research matrix</td>
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<td>research papers</td>
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Readings

Action Plan agreed at 1st meeting:
Readings on contemporary housing research (x3; M6; M18; M30)
– M5 (10 Feb) UCLan to circulate extended LR draft for comments.
– M6 (10 Mar) UCLan to circulate revised LR draft.
– M5 All partners to produce and circulate a position paper on a relevant research issue (IAQ, design, practice, participation) for comments.
– M6 All partners to circulate revised position papers.
– M5 UCLan: Matrix on team research

– 3-5 pages.
– Existing work relevant to contemporary housing.
Position papers

WP2 PROGRESS REPORT

Drivers of Contemporary Housing Research

Three concepts to present the OIKONET network

Capacity-building

WP2 PROGRESS REPORT

Subnetwork meeting 2
# Case studies

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OIKOpedia

Action Plan agreed at 1st meeting:

OIKOPEDIA entries (x3; **M12, M24, M36)**

- **M4** FUNITEC  Circulate Login details & template
- **M4** UCLAN  Summarise focus group document
- **M4** UCLAN  Create Dropbox folder on Case Studies
- **M5** All  Upload relevant case studies documents.
- **M6** All  Prepare sample entries.
- **M7** UCLAN  Collate & edit entries.
- **M8** All  Translation of entries.
- **M9** All  Upload entries.

– www.oikodomos.org/oikopedia
OIKOpedia development

Harmonisation of entries:
- Content (relevance; value; reliability)
- Structure (description; case studies; references)

Themes on contemporary housing studies:
- Sustainable design
- Inclusive design
- Community participation
- ...

**Research Matrix**

**Copy of Oikonet research matrix_V2 – Matrix**

**OIKONET RESEARCH MATRIX**

The purpose of this research matrix is to record research activity at partner organisations in order to enable knowledge exchange and collaboration in line with the aims and objectives of Oikonet. Small working groups will be set up according to the three themes listed below. This will allow for effective development of the project’s deliverables namely the Readings (x3) and the Oikopedia entries (x3).

Contemporary housing research

<table>
<thead>
<tr>
<th>Key research issues</th>
<th>Drivers</th>
<th>Barriers</th>
<th>Indicators</th>
<th>Methods</th>
<th>Case studies</th>
<th>Sources</th>
<th>Partner</th>
<th>Pedagogy</th>
</tr>
</thead>
<tbody>
<tr>
<td>What are the main research issues you are currently studying under the 3 headings below?</td>
<td>What are the main drivers behind the need to conduct research on these specific issues?</td>
<td>What are the main barriers that are or will prevent achieving targets and resolving issues?</td>
<td>What indicators and/or metrics will be used to measure the effects and benefits of your proposals/solutions?</td>
<td>What research methods you are using or will use to answer or resolve your key research issues?</td>
<td>What key case studies you think can be examined to inform this research?</td>
<td>What key sources and publications you suggest are important to further understand this research issues?</td>
<td>Please insert the acronym of your institution.</td>
<td>Please insert the acronym of your institution.</td>
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**SUSTAINABLE DESIGN**

| Indoor air quality (IAQ) | High energy costs; health and wellbeing. | Increased air tightness to reduce energy costs and CO2 emissions. | Reducing energy consumption and CO2 emissions. Healthy buildings. | Indoor air quality measurements. | British Research Establishment Science Park (Kingpan). | See IAQ sources Sheet. | UCLan |
| Public rental housing as social innovation | To recognise added value of the programme | Partnership with city of Zagreb | Interest of other cities to implement such programme | Face to face survey using questionnaire | Some typical households from the programme | Housing innovations, housing in transitional countries | ISP | LUPMF-IU/G postgraduate course on Sustainable planning and housing |
| Energy (towards nZEB) | Planning buildings towards nZEB | Lack of professional knowledge | Professional response | Upgrading computational tool developed for energy labelling to enable instant analysing of cost optimally measures | Computational tool for energy labelling that is already in use on national level will be extended in two levels: a) for analysing of cost optimal measures of improving building envelope properties and b) for analysing of building integrated technologies for decentralised production of heat and electricity | See Sources sheet ‘Energy’ | U.L- La Salle |
| Energy (urban climate mitigation) | Reducing of urban and street heat island, improving outdoor and indoor environment | Lack of professional knowledge, additional costs of building constructions | Thermal comfort parameters, air pollution indicators, thermal response of green roof building constructions | Experiments on different green roof constructions including measurements of thermal response, water accumulation and cooling of ambient air above green roof constructions | in-situ experiments | See Sources sheet ‘Energy’ | U.L., La Salle |
Outstanding and future tasks

1. Position papers to produce a Reader (book) by M12.
2. Oikopedia entries – one per partner by M12.
4. Liaise with Pedagogy & Dissemination WPs.
Outstanding and future tasks: Reader (D2.1)

Table of contents:
(policy, practice, design, community, case studies...)

1. Introduction (Uclan)
2. An overview of contemporary housing in Europe (Uclan)
3. Drivers of contemporary housing research (Uclan)
4. Low carbon/energy efficient housing (UL)
5. Co-design/community building/Interplace (Chalmers)
6. Low-income settlements (IHS)
7. Housing, social inequality and the life course (NOVA)
8. Contemporary domestic space organization (UCY)
9. Social innovation in public housing (ISP)
10. ...
RELATIONS TO OTHER WORK PACKAGES

OIKOnet

- Provides solutions to actual problems
- Integrated in the community

Sub-networks:
- Housing Research
- Community Participation
- Pedagogic Activities

Current contemporary discussions

Digital Platform:
- OIKOPedia
- OIKOblogs
- Facebook
- WebEx
- Moodle
- OIKODOMOS Workspaces
- OIKODOMOS Case Repositories

Target groups:
- Universities (teachers and students from various disciplines)
- Researchers on housing studies, professional organizations, community and social organizations

Pedagogic innovation, formal/informal learning, technology-enhanced learning
RELATIONS TO OTHER WORK PACKAGES

Links between WP2 and WP4

- The reader available in September can be used as reference in the learning activities.

- The OIKOpedia entries completed until September can be used as references in learning activities (themes, examples of cases, bibliography).

- WP2 partners can be involved in specific parts of the learning process:
  - proposal for courses: design studio on domestic space (UCY); postgraduate courses (UPMF-IUG; UCY).
  - learning design: defining the objectives of the tasks
  - evaluation: reading essays from students
  - other???
Links between WP2 and WP3

- There are some overlapping: community participation is one of the topics in the research matrix.

- The difference between WP2 and WP3 is that the second is involved with the design and implementation of participatory actions.
Links between WP2 and WP7

- **Deliverable 7.1** – Network conference in Barcelona. Session 1: Conceptualising contemporary housing research. Presentations from: UCLAN, UL, FAU, ELTE, IHS, UN-HABITAT.

- **Deliverable 7.4** – Journal and conferences. Joint work involving partners in different WPs could be presented in papers and articles. Each subnetwork should produce at least one publication by the end of the project.

- **Deliverable 7.7** – The OIKOnet Reader (the Book) should include chapters about research issues. The on-line publications produced step-by-step in WP2 (month 6, 18, 30) can be helpful for this.
- Signed Consortium Agreement is missing from: ELTE

- No costs have been claimed so far by WP2 member: please check Article 5 of Consortium Agreement for the procedure to get reimbursed

- Please check whether your institution recovers the VAT. Only if your institution is unable to recover the VAT can it be included in the claimed costs (page 31 Project Handbook). Otherwise, claimed costs should be without VAT.
Future Subnetwork meetings:

- M3 Dec 13  UK
- M9 June 14  SL
- M15 Dec 14  HU
- M21 June 15 NL
- M27 Dec 15  HR
- M33 June 16  LV
Readings:
M12: Final document (15 september)
M11: Final revised document
M10: First draft + peer review (by UCLAN)

Oikopedia:
M12: All entries uploaded – final
M11: All entries edited (by UCLAN)
M10: All entries uploaded – draft

Research Matrix:
Sustainability: Economic, Environmental and Social
Design: Concepts, Methods and Application
If you would like more information about the content of this presentation please contact:

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suzana.domjan@fs.uni-lj.si

or visit our web site

www.oikonet.org