3\textsuperscript{th} CONFERENCE OF INTERDISCIPLINARY RESEARCH ON REAL ESTATE

Programme

2018 CIRRE CONFERENCE

GRONINGEN, September 20-21, 2018

Hanze University of Applied Sciences Groningen
Research Centre for Built Environment NoorderRuimte
3th CONFERENCE OF INTERDISCIPLINARY RESEARCH ON REAL ESTATE
GRONINGEN, September 20-21, 2018

SCIENTIFIC COMMITTEE:

Prof. dr. Alenka Temeljotov Salaj, Assoc.prof. dr. Bojan Grum, Prof. dr. Darja Kobal Grum,
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Organizing Committee:

dr. Bojan Grum (chairman), dr. Jan Veuger (vice-chairman),
Daan Bartels (projectmanager), Christina Vinhuizen, Saskia Wiepkema
## PROGRAM OVERVIEW

### Wednesday September 19th

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>15.00-18.00</td>
<td>Pre-session meeting</td>
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### Thursday September 20th

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>09.00-09.45</td>
<td>Registration</td>
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<tr>
<td>09.45-09.50</td>
<td>Initial Speech by Bojan Grum</td>
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<td>Chairman of the Organizing Committee</td>
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<td>European Faculty of Law, Slovenia</td>
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<tr>
<td>09.50-10.00</td>
<td>Leading the opening ceremony by Jan Veuger</td>
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<td>Conference Chairperson and professor</td>
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<td>Real Estate Hanze University Groningen</td>
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<tr>
<td>10.00-10.20</td>
<td>Opening by René Paas</td>
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<td>Commissionar of the King province</td>
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<tr>
<td>10.20-10.35</td>
<td>Welcome by Rob Verhofstad</td>
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<td>Board of Hanze University Groningen</td>
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<tr>
<td>10.35-11.00</td>
<td>Keynote-speaker Erwin van der Krabben</td>
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<td>How public real estate development can</td>
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<td>support successful urban transformation</td>
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<td>projects</td>
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<td></td>
<td>Professor of Planning and Property</td>
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<td>Development in the Department of Planning</td>
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<td>Radboud University Nijmegen and Real</td>
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<td>Estate in Belfast School of Architecture</td>
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<td>and the Built Environment at Ulster</td>
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<td>University</td>
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<tr>
<td>11.00-11.30</td>
<td>Break</td>
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<tr>
<td>11.30-13.00</td>
<td>Session (4x parallel)</td>
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<tr>
<td>13.00-14.00</td>
<td>Lunch</td>
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<tr>
<td>14.00-15.30</td>
<td>Session (4x parallel)</td>
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<tr>
<td>15.30-16.00</td>
<td>Break</td>
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<tr>
<td>16.00-17.30</td>
<td>Session (4x parallel)</td>
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<td>19.00-22.00</td>
<td>Conference dinner at Groninger Museum</td>
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### Friday September 21st

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<tr>
<td>09.00-10.30</td>
<td>Session (4x parallel)</td>
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<tr>
<td>10.30-11.00</td>
<td>Break</td>
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<tr>
<td>11.00-12.30</td>
<td>Session (4x parallel)</td>
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<tr>
<td>12.30-13.30</td>
<td>Conclusions - informal meetings</td>
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*The organization has compiled the program subject to changes*
DETAILED SCHEDULE

WEDNESDAY September 19th

15.00-18.00

<table>
<thead>
<tr>
<th>15.00-18.00</th>
<th>Room T9.05, Zernikeplein 7 (Green Tower)</th>
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</thead>
<tbody>
<tr>
<td>Pre-session Meeting</td>
<td>Social Infrastructure: Development of Social Infrastructure and Services for Community Based Long-term Care</td>
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</tbody>
</table>

Chair
David Bogataj
University of Padua

Paper 1
The social infrastructure from the perspective of social work with older people
Jana Mali
University of Ljubljana

Paper 2
Life Cycle Social Needs and the Role of Urban FM
Svein Bjorberg, Alenka Temeljotov Salaj, David Bogataj
Norwegian University of Science and Technology, University of Padua

Paper 3
Taxation and investing in the community’s infrastructure for ageing cohorts
Petra Janež, David Bogataj
University of Padua

Paper 4
Social infrastructure that makes the community more sticky and attractive for older inhabitants
Samo Drobne, Jana Mali, Marija Bogataj
University of Ljubljana

Paper 5
Assisted Living Facilities System Development: The Case of Slovenia
Vlado Dimovski, Simon Colnar, Sandra Penger, Jana Žnideršič, Barbara Grah
University of Ljubljana

Paper 6
Transformation of social ownership – the case of social infrastructure
Eneja Drobež
Nova University

Paper 7
Development of Social Infrastructure for Older Adults Using the Multiple Decrement Approach
Marta Kavšek, David Bogataj
University of Padua

Paper 8
Social infrastructure in the Spatial Planning of Slovenia
Alma Zavodnik Lamovšek, Eneja Drobež
University of Ljubljana, Nova University

Paper 9
How Does Sense of Security Impact on Real Estate: General Review
Bojan Grum, Darja Kobal Grum
Nova University, University of Ljubljana
### THURSDAY September 20th

#### 11.30-13.00

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session</th>
<th>Topic</th>
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<tbody>
<tr>
<td>11.30-13.00</td>
<td>Room T9.05, Zernikeplein 7 (Green Tower)</td>
<td>Session 1</td>
<td>Public Real Estate</td>
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<td>Chair</td>
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<td>Masi Mohammad, University of Technology Eindhoven</td>
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</table>

**Paper 1**

Public Real Estate in Transition  
Cor Van Montfort, Claudia Noort, Okke van der Maas, Sicco van As  
Algemene Rekenkamer (Court of Audit)

**Paper 2**

Revaluation of Religious Heritage  
Veerle Follens  
Hanze University of Applied Sciences Groningen

**Paper 3**

Residential economy Ede through connection of energy and care  
Sander Korthouwer  
Municipal Ede

**Paper 4**

Which organizational form between municipal real estate and the market offer optimal efficiency and effectiveness for the transformation toward a facilitating municipal real estate organization in The Netherlands?  
Thomas Drenth  
Delft University

**Paper 5**

Set of criteria for older adults with early stage dementia to enable them to live longer in their own homes  
A.J.J.Grave and M. Mohammadi  
Eindhoven University of Technology

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Session 2</th>
<th>Digitalization and Real Estate I</th>
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<tbody>
<tr>
<td>11.30-13.00</td>
<td>Room A1.03 (Aula), Zernikeplein 11</td>
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<td>Jan Veuger, Hanze University of Applied Sciences Groningen</td>
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**Paper 1**

Darwinism in a Smart City  
Manuela Krull- Mancinelli  
Blockchain Entrepreneur

**Paper 2**

Blockchain: technology looking for a problem?  
Visions on the application of blockchain technology in real estate  
Jo Bronckers and Jan Veuger  
Blockchain Entrepreneur and Hanze University of Applied Sciences Groningen
### Paper 3
Start a Brick  
Wendel Hulsebos  
Hanse University of Applied Sciences Groningen

### Paper 4
Residential community management software: A case for the use of 4.0 Technology  
Ali Parandeh, Jaime San Martin & Claudia Villarreal  
Founder of Urbytus #proptech #blockchain

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<tr>
<th>11.30-13.00</th>
<th>Room H0.50 (KCNR), Zernikeplein 11</th>
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<tbody>
<tr>
<td><strong>Session 3</strong></td>
<td><strong>Sustainability</strong></td>
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| **Chair** | Alenka Temeljotov Salaj  
Norwegian University of Science and Technology |
| **Paper 1** | Value sharing model for urban development  
Alenka Temeljotov Salaj, Hallgrim Hjelmbrekke, Svein Bjørberg, Jardar Lohne  
Norwegian University of Science and Technology |
| **Paper 2** | Social Indicators for Sustainable Communities  
Carmel Lindkvist, Tore Haugen, Alenka Temeljotov Salaj  
Norwegian University of Science and Technology |
| **Paper 3** | A study on optimum insulation thicknesses and payback periods for the use of a building during heating and cooling seasons  
Ahmet Serhan Canbolat  
Uludag University |
| **Paper 4** | Public value orientation to urban development  
Yan Xue  
Norwegian University of Science and Technology |
| **Paper 5** | Geothermal Energy Integration in Urban Systems: Case Study of Armutlu District  
Ayse Fidan Altun, Muhsin Klic  
Uludag University |

### 11.30-13.00
Room U150 (new orange building), Zernikeplein 7  
**Session 4**  
**Building & Social Infrastructure**

| **Chair** | Bojan Grum, Nova University |
| **Paper 1** | Invited lecture  
Dark Side of Boosting Building Renovation in European Real Estate Market  
Mateja Dovjak  
University of Ljubljana |
Paper 2  Transformation of social ownership – the case of social infrastructure  
Eneja Drobež  
Nova University

Paper 3  Social infrastructure that makes the community more sticky and attractive for older inhabitants  
Samo Drobne, Jana Mali, Marija Bogataj  
University of Ljubljana

Paper 4  Dirt on the white marble of iconic Oslo opera House  
Bjørn Stahel  
Oslo Metropolitan University College of Applied Sciences, Oslo Business School, Norway
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<th>Time</th>
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<th>Session</th>
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<tr>
<td>14.00-15.30</td>
<td>Room A1.03 (Aula)</td>
<td>Session 5</td>
<td>Digitalization and Real Estate II</td>
<td>Chair: Jan Veuger, Hanze University of Applied Sciences Groningen</td>
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<td>Paper 1: Digital Twin, Menno Lammers, Chief PropTech Officer</td>
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<td>Paper 2: Digitalization of FM services in Norway – The beauty or the beast. Marit Støre-Valen, Norwegian University of Science and Technology</td>
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<td>14.00-15.30</td>
<td>Room H0.50 (KCNR)</td>
<td>Session 6</td>
<td>Strategic Planning</td>
<td>Chair: Alenka Temeljotov Salaj, Norwegian University of Science and Technology</td>
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<td>Paper 1: Energy performance of social real estate in the Netherlands, Lars Brugman &amp; Ramona van Marwijk, Kadaster</td>
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<td>Paper 2: The Impact of Climate Change on Strategic Management of River Dam Assets, Andrej Rajh, Alenka Temeljotov Salaj, Nova University</td>
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<td>Paper 3: Multimap as a method for strategic planning – Tool and Practical Results and Experience as Base for Use in Urban Areas, Robin Sæterøy, Svein Bjorberg, Ina Aspestrand, Multiconsult</td>
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<td>Paper 4: The Role and the importance of the Economic Impact, Institutional Legislation for Increasing Value of the Sustainability Refurbishment of the Building Stock in Kosovo, Faut Pallaska, APRK-MESE</td>
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<td>Paper 5: Managing Municipal Real Estate in 2035, Wouter van den Wildenberg, Fakton</td>
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<td>Paper 1</td>
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<td>14.00-15.30</td>
<td>Room U150 (new orange building), Zernikeplein 7</td>
<td>Urban Planning</td>
<td>Bojan Grum</td>
<td>New Evidence in Contemporary Decision-making in Spatial Planning</td>
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<td>Ivan Stanič, Barbara Mušič</td>
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<td>Royal Institution of Chartered Surveyors (RICS)</td>
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<td>Wendy Verschoor</td>
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<td>Big Data</td>
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<td>Tony Mulhall</td>
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<td>Sustainable Real Estate and Ethics</td>
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<td>Professional Group Social Real Estate RICS Nederland: Position paper 2018</td>
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<td>Dennis van der Plas &amp; Bert Scherpenzeel</td>
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<td>The cost effect of sustainable climate installations in commercial real estate: an illusion?</td>
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<td>Amsterdam School of Real Estate</td>
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<tr>
<td>Paper 1</td>
<td>The added value of photo elicitation in explorative participatory research.</td>
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<td>K. Hamers, N. Moor and Masi Mohammadi</td>
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<td>Paper 2</td>
<td>An exploration into smart environments for stimulating encounters for older adults with dementia in in-patient facilities</td>
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<td>K. Hamers, J.H.W. Hammink, Masi Mohammadi</td>
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<td>University of Technology Eindhoven</td>
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<td>Paper 3</td>
<td>A space for makings friends. The role of semi-private transitional space in stimulating social cohesion in high-rise apartement</td>
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<td>P.M.L. Nguyen, M. Mohammadi en N. Moor</td>
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<td>University of Technology Eindhoven</td>
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<tr>
<td>Paper 4</td>
<td>Technological integration of the house of the future, Case study analyses of the integration level of technology for innovative housing projects between 1920-2010</td>
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<td>B. Kirbas Akyurk March, M. Mohammadi, M.H. Kortekaas and J.L. Fisscher</td>
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Paper 5  Technological integration of the “house of the future”
M.H. Kortekaas
Eindhoven University of Technology
15.30-17.30 Room H0.50 (KCNR), Zernikeplein 11
Session 10 Healthy Ageing

Chair
Joost Degenaar
Hanze University of Applied Sciences Groningen
Introduction Healthy Ageing and presentation book Healthy Ageing

Paper 1
Healthy Space Design
Mark Mobach
Hanze University of Applied Sciences Groningen no abstract, only presentation

Paper 2
Healthy Workplace; case Environment conditions in classroom on education
Henk Brink
Hanze University of Applied Sciences Groningen

Paper 3
Healthy Public Space
Johan de Jong
Hanze University of Applied Sciences Groningen

Paper 4
Best Practice
Wilma Wolf
Hanze University of Applied Sciences Groningen
Presentation Book by Wilma Wolf
FRIDAY September 21\textsuperscript{th}

09.00-10.30

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<tr>
<th>Time</th>
<th>Session</th>
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<td>Room T9.05, Zernikeplein 7 (Green Tower)</td>
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<tr>
<td>09.00-10.30</td>
<td>Session 1</td>
<td>Building Projects, Sustainability</td>
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Chair

Wabbe de Vries
Hanze University of Applied Sciences

Paper 1

Don’t be afraid, embrace complexity! - A systems approach for the design and evaluation of Higher Education learning spaces
Eduard Navarro Bringas

Paper 2

The Workplace Maturity Model: Quantifying the degree of workplace growth
Lex Janssen
Measuremen

Paper 3

Easement as the element of monetization of real estate and insurance for infrastructural and energy investments
Zef Vucaj, Bojan Grum
Nova University

Paper 4

The impact of municipal taxation and revenues on the bid rent curve determined trough parameters of the net internal migration
Samo Drobne, Petra Janež and Marija Bogataj
University of Ljubljana

09.00-10.30

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<th>Time</th>
<th>Session</th>
<th>Room A1.03 (Aula), Zernikeplein 11</th>
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<tr>
<td>09.00-10.30</td>
<td>Session 12</td>
<td>Sustainability</td>
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Chair

Bojan Grum
Nova University

Paper 1

Social infrastructure in the Spatial Planning of Slovenia
Alma Zavodnik Lamovšek and Eneja Drobež
University of Ljubljana, Nova University

Paper 2

Age-friendly and smart cities
Bostjan Kerbler, Suzana Peer Kvas
Urban Planning Institute of the Republic of Slovenia

Paper 3

The meaning of information governance for sustainable maintenance management
Koos Johannes, Hans Voordijk, Guillermo Aranda-Mena and Arjen Adriaanse
Amsterdam University of Applied Sciences
11.00-12.30

**Session 13**  
**Room T9.05, Zernikeplein 7 (Green Tower)**  
**Real Estates**

**Chair**  
Darja Kobal Grum  
University of Ljubljana

**Paper 1**  
Taxation and investing in the community infrastructure for ageing cohorts.  
Petra Janez, David Bogataj  
University of Padua

**Paper 2**  
Mitigating age related risks in smart silver retirement villages, creating social value in the context of Health Care and Long-Term Care provision  
Valerija Rogelj, Marija Bogataj and David Bogataj  
University of Padua

**Paper 3**  
Local buyers in the Groningen earthquake region  
Hieke T. van der Kloet  
Hanse University of Applied Sciences

**Paper 4**  
Life Cycle Social Needs and the Role of Urban FM  
Svein Bjorberg, Alenka Temeljotov Salaj, David Bogataj  
Norwegian University of Science and Technology, University of Padua

**Paper 5**  
Assisted Living Facilities System Development: The Case of Slovenia  
Vlado Dimovski, Simon Colnar, Sandra Penger, Jana Žnideršič, Barbara Grah  
University of Ljubljana

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11.00-12.30

**Session 14**  
**Room H0.50 (KCNR), Zernikeplein 11**  
**Demographic Transition and Environment**

**Chair**  
Elles Bulder  
Hanze University of Applied Sciences Groningen

**Paper 1**  
The influence of village attractiveness on flows of movers in a declining rural region  
Hans Elshof  
CMO STAMM Groningen

**Paper 2**  
Housing Studies East Groningen  
Daniel Depenbrock  
KAW Groningen

**Paper 3**  
Real Estate Monitor 2018 Municipality Groningen  
Erik de Jong  
Vinco Real Estate
Development of Social Infrastructure for Older Adults Using the Multiple Decrement Approach
Marta Kavšek, David Bogataj
University of Padua
### Chairs during the Conference

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<th>Room T9.05 (Green Tower)</th>
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<td>Masi Mohammadi</td>
<td>Jan Veuger</td>
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<td>Bojan Grum</td>
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<td>Elles Bulder</td>
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### Host during the Conference

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