

NEMO.OMILAB.ORG



universität
wien

NEMO

Learn *Conceptual Modelling*
to innovate, design and engineer
Digital Ecosystems

SUMMER SCHOOL ERIES

Become a digital leader!

BUILD
DIGITAL
TWINS OF THE
FUTURE

DIGITALISATION NEEDS HIGH POTENTIALS,
THAT'S WHAT THE NEMO SUMMER SCHOOL PRODUCES.

INITIATORS OF THE NEMO SUMMER SCHOOL



Prof. Dr. Dimitris Karagiannis



Prof. Dr. Heinrich C. Mayr

At the NEMO Summer School you:
create with the help of "Design Thinking"
design with the help of "Conceptual Modelling"
engineer with the help of "Digital Twin"
your disruptive Ecosystem.

The BENEFITS

WHO?

NEMO graduates represent a large international network striving towards academic and professional excellence, who are connected by a common experience and cooperation platform.

WHY?

NEMO enables participants to meet a large number of international renowned academics, discuss current research topics with them and actively participate to an international community of peers.

Conceptual Modelling in the Digital Age

Tomorrow's students will work in and for digitized organizations where smart devices, digital artefacts, intelligent machines and robots, data streams and connectivity are ubiquitous. In their work, they will face human challenges (e.g. human-machine/system interaction), lifecycle challenges (e.g. ICT embedded in the lifecycle of consumer products like cars, industry machinery, and energy provision systems etc.), business challenges (e.g. new business models to exploit value from new applications and domains), and regulatory challenges (e.g. privacy, security etc.). Additionally, a higher level of automated processing of digital information as well as the "end-to-end" integration of processes across multiple organizations and customers will be required by users. NEMO provides a vertical overview across different application domains in preparation for all dimensions of digital transformation.

One way to manage such complex ecosystems is by means of conceptual modelling, both in the form of theory and practice. How to define and combine

modelling methods with the adequate level of abstraction and how to engineer corresponding modelling tools is at the center of conceptual modelling education.

The NEMO Summer School Series brings renowned researchers and academics together with students to explore current research challenges and future development of conceptual modelling with focus on the design and implementation of Enterprise Digital Twins and Ecosystems.

NEMO exposes students to a wide diversity of lectures, covering manifold aspects of conceptual modelling, "Smart Models", Digital Ecosystems, Design Thinking, Digital Twins, as well as various cross-cutting issues. It facilitates peer exchange in working groups. Besides it supports networking in an international environment with colleagues and professors. And last but not least it encourages participants to enjoy culture and the beautiful city of Vienna.

HOW?

The NEMO Summer School provides a highly-interactive experimental environment where students and teachers focus on conceptual modelling for digital innovation ecosystems.

WHAT?

Students work in multicultural teams to create practical solutions to real world problems. They use the Digital Innovation Environment (DiEn) powered by OMiLAB to access open community artefacts and co-design their solutions.

The CONTENT

WE USE ABSTRACTION TO REDUCE COMPLEXITY OF A DOMAIN FOR A SPECIFIC PURPOSE

Foundations of Conceptual Modelling

Abstraction is used to represent the real world in models for a specific purpose. This is necessary in order to reduce and manage complexity. Models incorporate, beyond syntax and notation, also the semantics of the domain they address. This stream deals with scientific and philosophical principles for modelling, fundamental notions of conceptual models, goals, as well as scoping of design methodologies for modelling languages and methods. In addition, it presents formal methods which are necessary in method engineering frameworks. Lastly the fundamentals of the creative conceptualization process are dealt with applying the AMME Conceptualization Lifecycle.

"Smart Models" for Humans and Machines

Agile Modelling Method Engineering (AMME) is used to develop model-based domain-specific applications as well as to derive increased value from such domain-specific models. This stream presents modelling languages for specific domains, like: capability management, enterprise information systems, health care management, immigration management, industrial management, model-driven software engineering, product-service-systems, production management, requirements engineering, service management, transportation as well as energy management, and, more generally, semantic-driven applications.

Semantics and technologies for Digital Ecosystems

Domain-specific tools support digitizing the relevant parts of the real world into conceptual models and applying processing mechanisms and algorithms on the models for problem resolution. Content discussed in this stream addresses advanced aspects of meta-modelling, ontologies, and generally semantic technologies focusing on domain-specific requirements. Technologies may range from lightweight modelling to formal algebra. Mechanisms and algorithms which enable processing of models by means of e.g., assessment, evaluation, prediction, planning, analysis and simulation are introduced. Advanced technologies increase model value and user interaction both, on enterprise and on individual level.

The CONTENT

AN INTERACTIVE COMBINATION OF THEORY AND PRACTICE

Digital Design Thinking

Digital Design Thinking is a concept through which a disruption of business models is achieved and its transformation is realized with technological and organizational changes. The content of this stream deals with Digital Design Thinking tools, which are employed for switching the working environment limitations into remote collaboration environments, which is especially useful when it comes to geographically diffused teams or sessions taking place at different times.

Enterprise Digital Twins

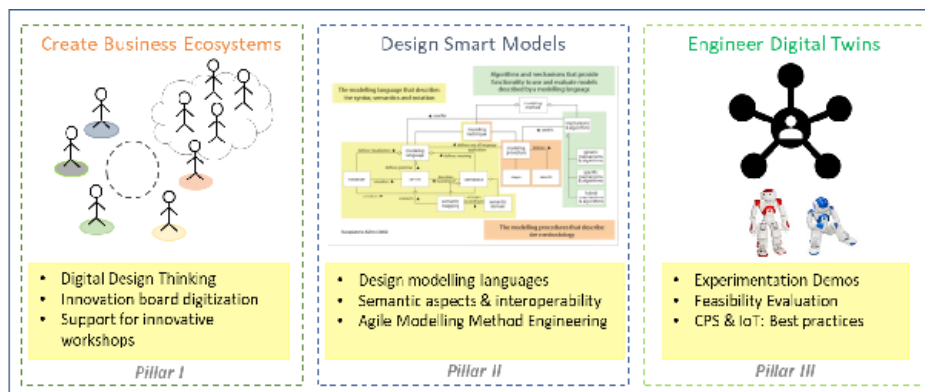
Enterprise Digital Twins present a virtual counterpart to an enterprise's assets and their static and dynamic features as a next step of digitalization. This stream addresses the concepts and technologies relevant for realization of Enterprise Digital Twins, their data and behavior along its lifecycle. The Digital Twins can be employed with their counter-part from the physical layer for activities like analysis, simulation or verify feasibility among others.

Cross-Cutting Issues

A key challenge in conceptual modelling is the design process in which real world artefacts are abstracted into concepts of a modelling language. This process is based on creativity, human interpretation of the real world and the capability to transform this knowledge into a conceptual model representation. Content included in this stream deals with issues like interaction and abstraction required to create and manipulate models, to verify models, to incorporate possible processing of models in form of algorithms into modelling methods, to evolve and migrate models and modelling languages, to integrate model processing in service-oriented tool chains as well as to perform knowledge interpretation.

OMiLAB - a Digital Innovation Environment

The Digital Innovation Environment (*DiEn*) of OMiLAB enables experimentation, training and engineering activities for organisations pursuing Digital Transformation initiatives. Stakeholders from a multi-disciplinary background are supported to develop innovative ideas as digital business models, to materialize them in proof-of-concept implementations and to evaluate their feasibility in a laboratory setting, within a corporate or academic context focusing on Digital Innovation.



Approach

Business Ecosystems, Design Thinking, Digital Twins, Conceptual Modelling, Artificial Intelligence

Technology



The Digital Innovation Environment (*DiEn*) of OMiLAB builds on the notion of digital business models. A digital business model uses a Digital Twin as a conceptual representation of an intelligent offering that:

- must be co-designed by domain experts and innovators from different backgrounds,
- must provide an adequate virtualization of reality, considering domain-specificity and the value to be created, and
- must enable experimentation and evaluation of the novel business model.



VISIT: WWW.OMILAB.ORG

The PRACTICE

OMiLAB is a space to:



Collaborate – with peers, academics and experts from all over the world on topics related to conceptual modelling and modelling tool engineering.



Innovate – ideas, extend existing concepts, methods and tools, apply modelling knowledge to new domains and innovative designs or technologies.

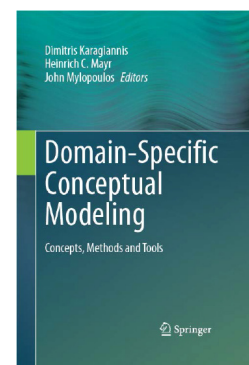


Engineer – modelling methods, tools and design models using the OMiLAB technological environment. An industry-grade meta-modelling platform, i.e. ADOxx, is available as well as a wide-variety of open-source services.



Domain-Specific Conceptual Modelling Concepts, Methods and Tools

This book draws new attention to domain-specific conceptual modelling by presenting the work of thought leaders who have designed and deployed specific modelling methods. All domain-specific methods described in this volume have a tool implementation available in the OMiLAB, making these advances accessible and usable to a wide community of developers and users.



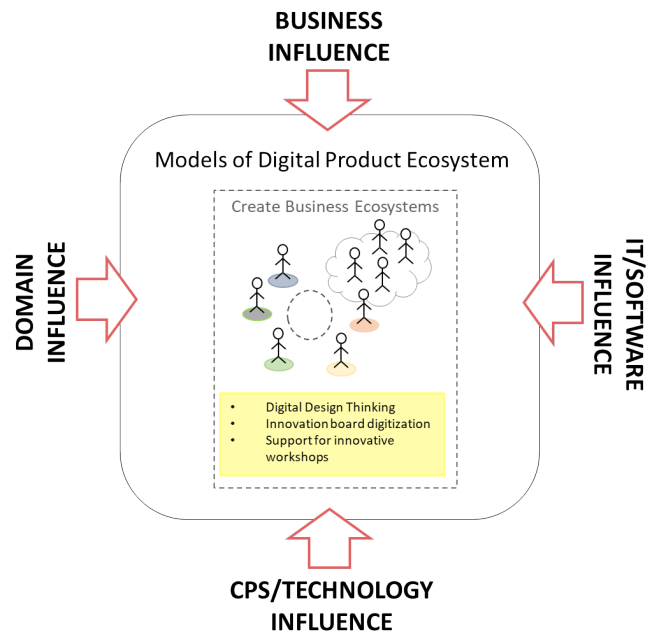
VISIT: OMILAB.ORG/ACTIVITIES/BOOKS.HTML

From Conceptual Modelling



Digital Innovator

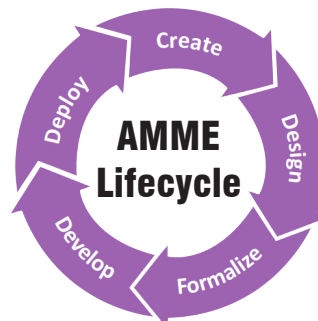
Creates new disruptive Business Ecosystems.



Modelling Method Engineer

Uses AMME to build method artefacts and design Digital Twins.

AMME - Agile Modelling Method Engineering



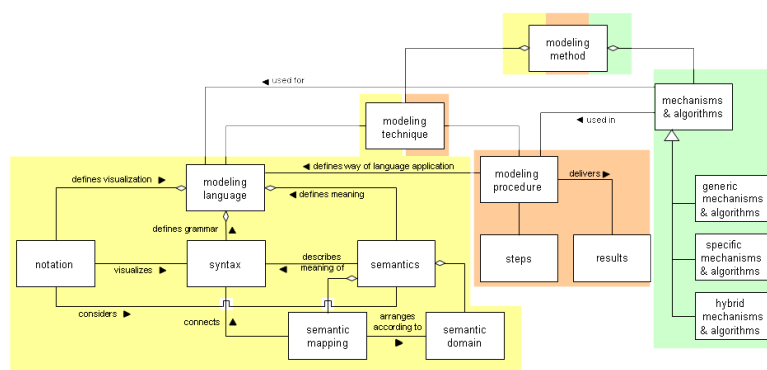
Digital Laboratory: Configuration



Meta-model Designer

Responsible for the modelling language definition and usage.

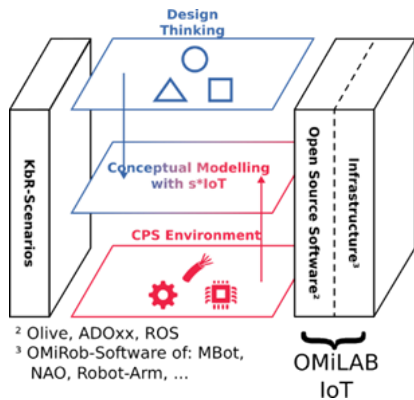
Generic Modelling Method Framework



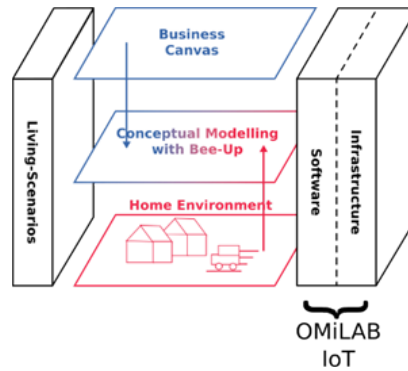
and back

to Digital Environments

Knowledge-based Robotics



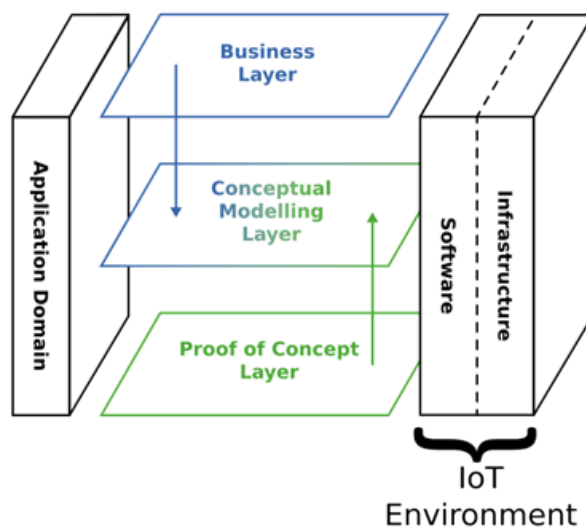
Smart Environment



Digital Engineer

Experiences the Digital Twin in the lab environment.

Digital Laboratory: Materialization



Digital Product Designer

Applies the method for a selected domain.

Digital Laboratory: Conceptualization

ADOxx – The open source Metamodelling Platform

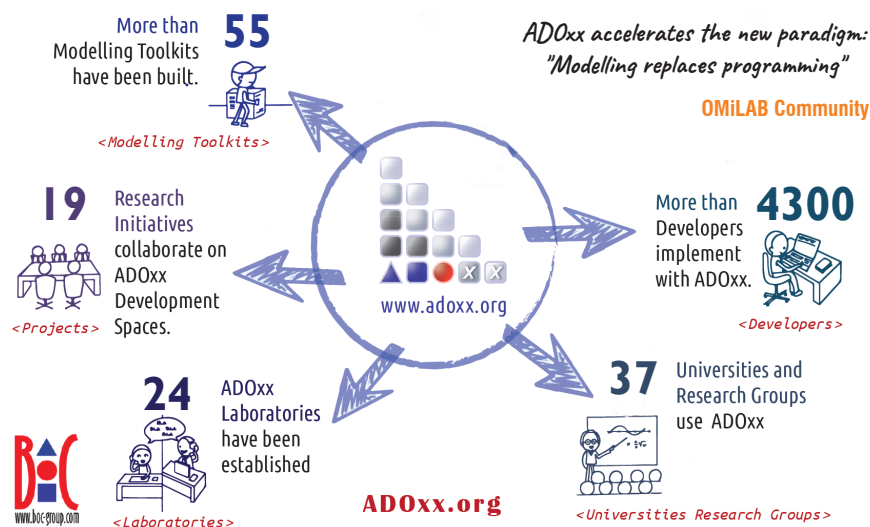
Practical work during NEMO is performed using ADOxx, the meta-modelling and development platform to realise modelling tools.



ADOxx enables to:

- **Create** full-fledged individual modelling tools using pre-build platform features
- **Develop** the notation, syntax and semantic of a modelling language with a script-based approach
- **Integrate** or **Implement** Microservices encapsulating algorithms and mechanisms with the OLIVE Framework
- **Package** modelling tools for local or distributed software deployment

MAKE MODELLING WORK



VISIT: **WWW.ADOXX.ORG**

ADOxx-based Modelling Tools realized by international research groups

 For Enterprise Modeling (4EM)	 ArchiMate 3.0	 ADVISOR	 Hermxx	 Business Processes for Digital Transformation	 Bee-Up
 Business Engineering Navigator	 Business Process Feature Model	 Data Integration and Cleansing Environment	 Capability Oriented Enterprise Knowledge Modelling	 ComVantage	 Design&Engineering Methodology for Organizations Project
 Data Integration for Business	 Business Process Risk management – Integrated Method	 Decision Model and Notation	 MoSeS4eGov	 Evaluation Chains	 Electric Vehicle Testbed Modeler
 exemplarische Geschäftsprozess-modellierung	 DICER	 ENTERKNOW	 BD-DS	 Human Cognitive Model Language Modeler	 PSS Scenario Modeller
 eduWeaver	 ADOxx Horus Method	 iStar	 Japanese Creative Services	 KAMET	 Petrixx
 Knowledge Work Designer	 Learn PAD - Model-Based Social Learning for Public Administrations	 Enterprise Knowledge Development	 Large Scale Collaborative Processes	 Multi-Perspective Enterprise Modeling (MEMO)	 Probability Visualized
 Conceptual Design of Multi-View Modeling Tools	 Open Knowledge Models	 PetriNets	 MultiModal Interface Modeling Language	 Process-Goal Alignment modeling and analysis technique	 PRINTEPS modeling method
 Regensburg University Process Excellence and Reengineering Toolkit	 SAVE	 SIMchronization	 Secure Tropos	 User Story Mapping	 Scene2Model
 Semantic-based Modeling Framework for Information Systems	 TOGAF based Enterprise Architecture Management	 Semantic Database Design	 Modelling Framework for a Semantic Internet of Things	 Semcheck	 Structured Entity Relationship Modeling Method on ADOxx
 Semantic Object Model (SOM)	 VISIT: AUSTRIA.OMILAB.ORG/PSM/EXPLOREPROJECTS				

The INTERNATIONALITY

PARTICIPATING COUNTRIES:



1. ALBANIA
2. ALGERIA
3. ARMENIA
4. AUSTRALIA
5. AUSTRIA
6. BELGIUM
7. BRAZIL
8. BULGARIA
9. CANADA
10. CHILE

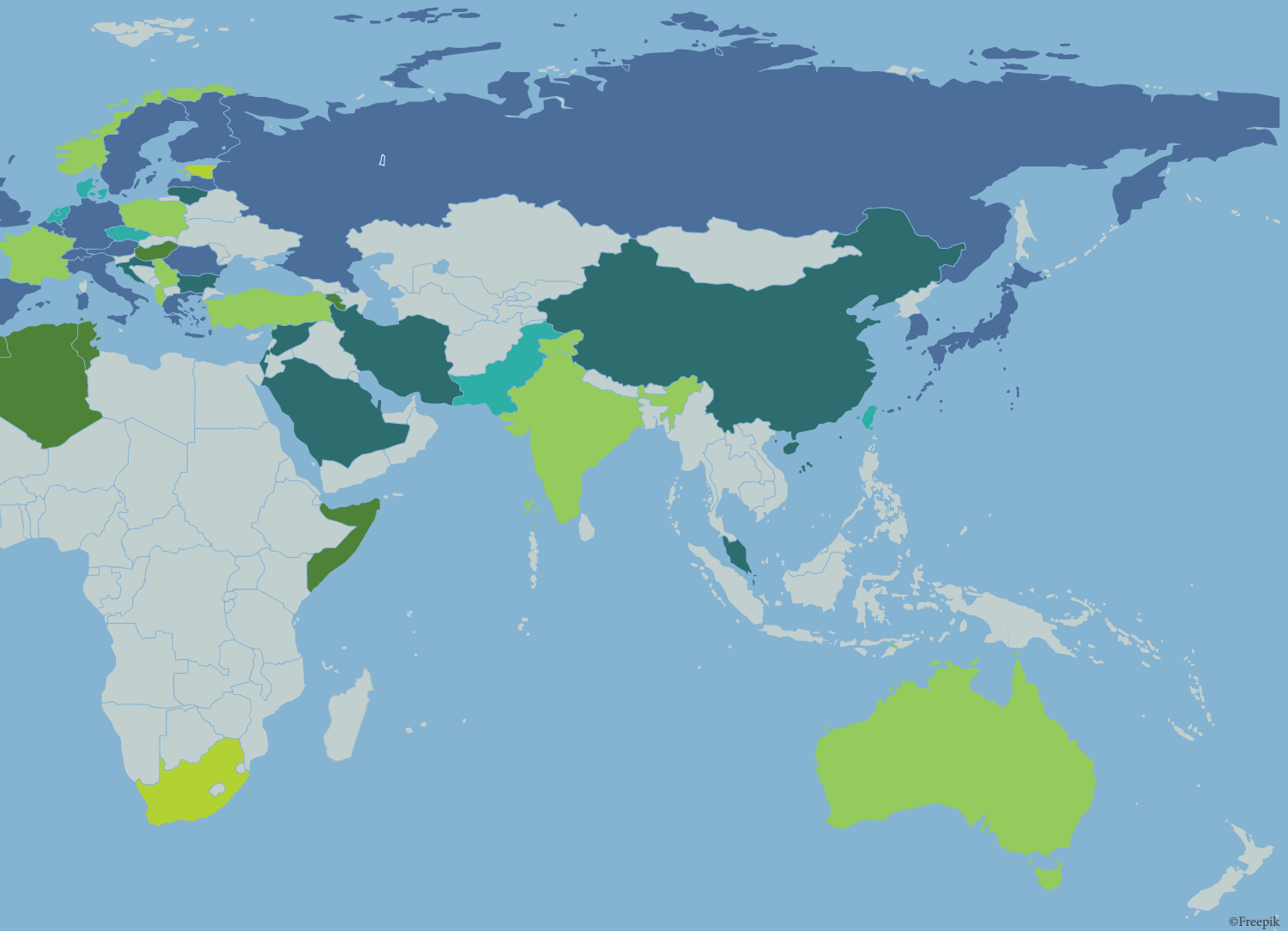
11. CHINA
12. COLOMBIA
13. CROATIA
14. CZECH REP.
15. DENMARK
16. ESTONIA
17. FINLAND
18. FRANCE
19. GERMANY
20. GREECE

21. HUNGARY
22. INDIA
23. IRAN
24. IRELAND
25. ISRAEL
26. ITALY
27. JAPAN
28. KOREA REP.
29. LATVIA
30. LITHUANIA

OMILAB FACILITATES A COMMUNITY WHICH SHARES
KNOWLEDGE, TECHNOLOGIES, VALUES AND ENABLES US
TO REALIZE OUR OWN IDEAS.



Prof. Dr. Moonkun Lee
CHONBUK NATIONAL UNIVERSITY, SOUTH KOREA



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|-----------------|------------------|-----------------|
| 31. LUXEMBOURG | 40. QATAR | 49. SWEDEN |
| 32. MALAYSIA | 41. ROMANIA | 50. SWITZERLAND |
| 33. MEXICO | 42. RUSSIA | 51. TAIWAN |
| 34. MOROCCO | 43. SAUDI ARABIA | 52. TUNISIA |
| 35. NETHERLANDS | 44. SERBIA | 53. TURKEY |
| 36. NORWAY | 45. SLOVENIA | 54. UK |
| 37. PAKISTAN | 46. SOMALIA | 55. USA |
| 38. POLAND | 47. SOUTH AFRICA | |
| 39. PORTUGAL | 48. SPAIN | |

The STUDENTS



STUDENTS



INSTITUTIONS



COUNTRIES

2014

44

25

16

2015

50

25

15

2016

63

42

26

2017

58

36

23

2018

47

37

21

2019

54

34

19

The CONTRIBUTORS



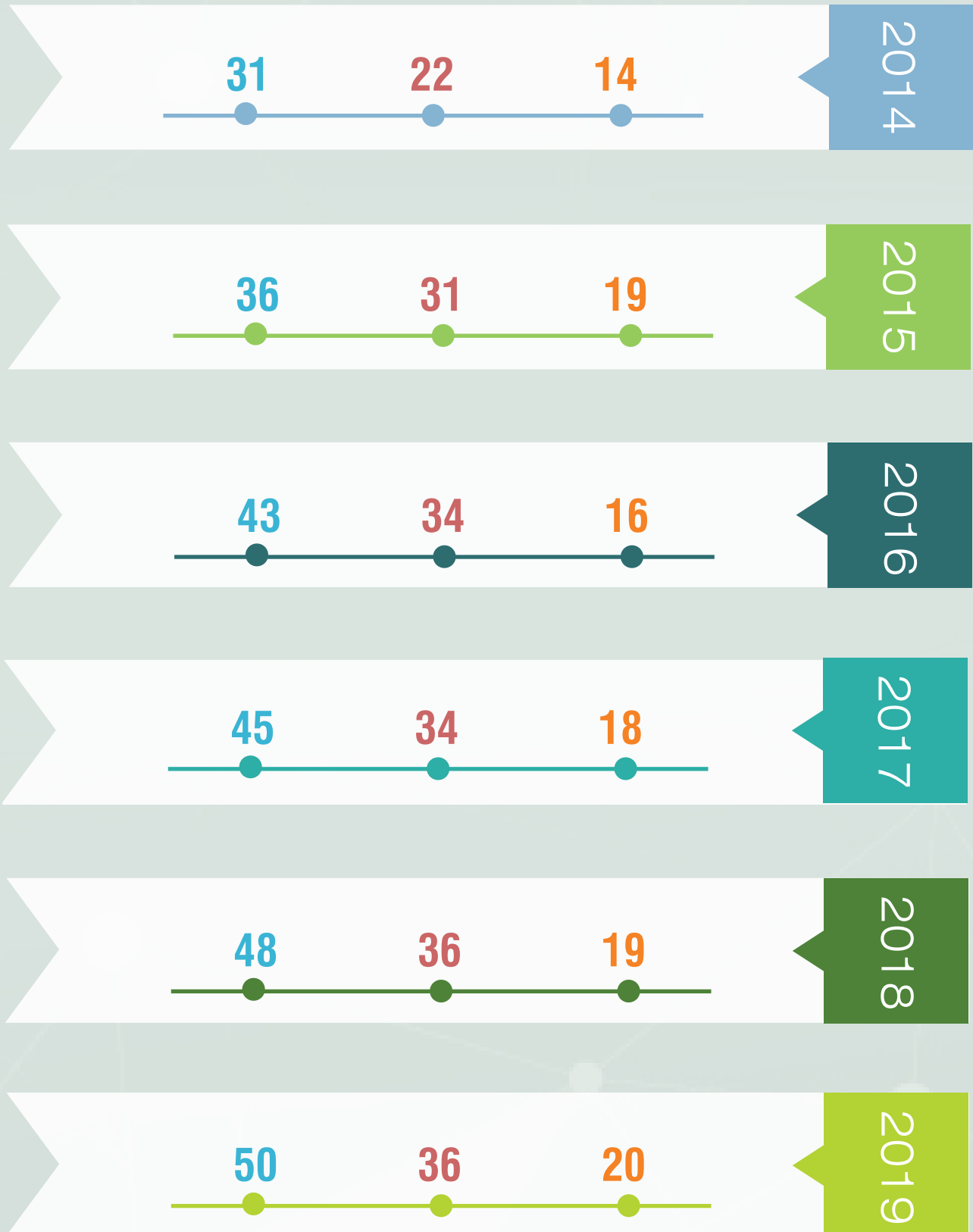
CONTRIBUTORS



INSTITUTIONS



COUNTRIES



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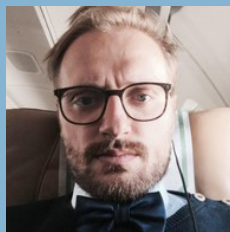
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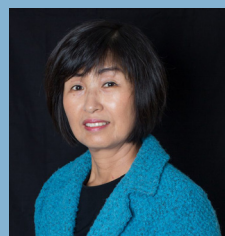
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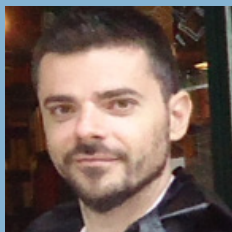
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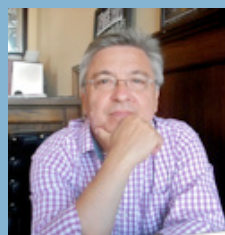
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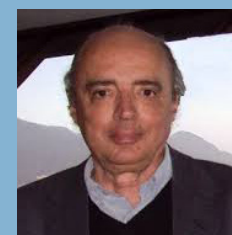
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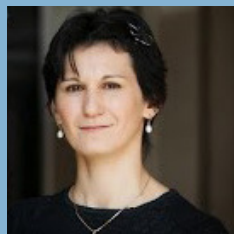
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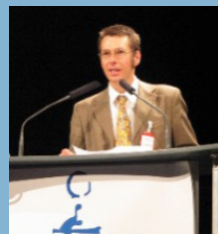
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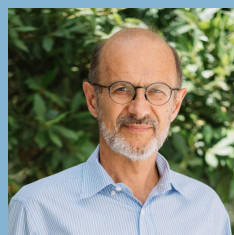
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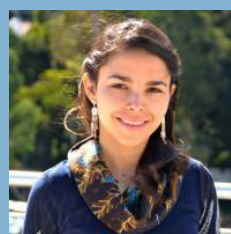
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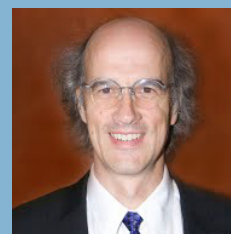
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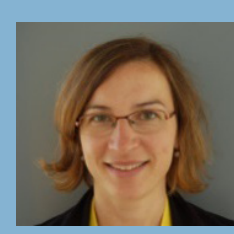
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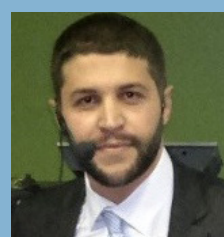
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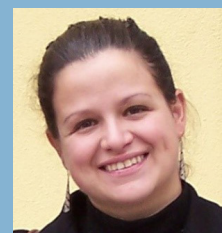
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Ilia Bider



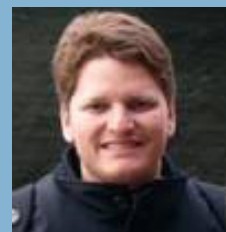
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Igor Hawryszkiewicz



Nineta Polemi



John Krogstie



Doo-Hwan Bae



Martin Nemetz



Florian Johannsen



Dominik Bork



Peter Reimann



Judith Michael



Jolita Ralyte



The SPONSORS



Atos

As a pioneer of digital transformation, innovation and value creation, both for our own company and for our clients, we have cemented our position as a trusted partner with resources, the scale and know-how that our clients need.

We are leaders in digital services with more than 100,000 employees in 73 countries, serving a global client base. We are experts in Big Data & Security, Business & Platform Solutions, Digital payments and e-Transactions, Infrastructure & Data Management, and Unified Communications & Collaboration.

*SEEING DIGITALISATION AS A KEY FACTOR IN THE SUCCESS
OF OUR ENTIRE ECONOMY, WE ARE PROUD TO BE PART
OF THE NEMO SUMMER SCHOOL WITH ITS GOAL OF
TRANSFORMING BUSINESSES FOR THE DIGITAL AGE.*

MARKO WILDHABER
HEAD OF MARKETING & COMMUNICATIONS AUSTRIA
ATOS



City of Vienna

Vienna is the first European city with a digital agenda, which has been developed by a crowdsourcing process together with citizens and local experts. Especially cities have to meet big challenges: on one hand through urbanisation. More and more people move to urban areas. On the other hand through climate change. Vienna solves the coherent tasks using digital solutions, such as Artificial Intelligence (AI), Internet of Things (IoT), Blockchain technology, Chatbot, Live Apps, participation and eGovernment-Services.

Vienna started a cooperation with IT-companies and created the Digital City. The goals are supporting Vienna's ICT companies, increasing the quality of ICT-education and the number of women working in the ICT sector, using disruptive technologies, and strengthening the reputation of Vienna as a digital hotspot, particularly for start-ups.

*INFORMATION TECHNOLOGY IS THE NERVOUS SYSTEM OF
THE SMART CITY ACCEPTING THE NEW CHALLENGES FOR
THE CONTINUED HIGH LEVEL OF QUALITY LIFE IN VIENNA.*

KLEMENS HIMPEL
CIO
STADT WIEN



THANK YOU!

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Hilti Group

As a leading-edge provider of solutions and services to the professional construction industry Hilti drives the digital transformation enabling Hilti customers to be more productive while observing highest health and safety standards.

Hilti IT is a key pillar of the digital activities of the Hilti group, running a single-instance global ERP system and providing with the Hilti Cloud a common application platform for all internal and customer-facing digital activities. Global IT is a valued business partner in the Hilti Group that is business driven, value focused and competitively strives for customer satisfaction, business and operational excellence in every area.

FOR MY SOLUTION ARCHITECTS AND ENTERPRISE
ARCHITECTS IT IS INSPIRING TO EXCHANGE LATEST
INSIGHTS IN ENTERPRISE MODELLING WITH OTHER
PRACTITIONERS AND TALENTED STUDENTS PARTICIPATING
IN THE NEMO SUMMER SCHOOL.

MARTIN PETRY
CIO
HILTI AG



THANK YOU!

The SPONSORS



Fujitsu

Fujitsu is a global ICT company originated in Japan with over 80-years history. We are the world's fifth-largest IT services provider and No.1 in Japan.

Today digital technology is transforming business, society and everyday lives of people. In this digital era, we want to be a trusted technology partner of enterprises and public institutions to help them drive their growth. To co-create new value with our customers, Fujitsu focuses on providing breakthrough digital technologies including AI and IoT, and works on shaping open-innovation ecosystems with enterprises, startup companies, academic institutions and governments. Through co-creation, we aim to realize a better future for everyone.

*IT IS VERY IMPORTANT FOR US TO HAVE A GOOD
PARTNERSHIP WITH WORLD-LEADING ACADEMIC
INSTITUTIONS AND CONTRIBUTE TO DEVELOPING NEXT
GENERATION TALENT.*

YOSHIKUNI TAKASHIGE,
VICE PRESIDENT,
MARKETING STRATEGY AND VISION,
FUJITSU LIMITED



THANK YOU!

The EVENTS



NEMO
2014



NEMO
2015



NEMO
2016



NEMO
2017

The EVENTS



SAVE THE DATE

JOIN the next edition in the
NEMO Summer School Series!

2021
19th - 30th of July

2023
17th - 28th of July

2022
11th - 22nd of July

2024
15th - 26th of July



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UNIVERSITY OF VIENNA



**universität
wien**

650

YEARS OF ACADEMIC
EXCELLENCE



©Universität Wien/ Franz Pfluegl

Founded in 1365 as Alma Mater Rudolphina Vindobonensis by Rudolph IV the University of Vienna is the oldest higher education institution in Austria and one of the oldest in Europe. In 1848 article 17 of the Austrian Basic Law, which is still valid today, was instituted stating that "Science and teaching are free." In 1897, 532 years after its foundation the University of Vienna permitted women to enrol, although initially only at the faculty of Philosophy.

The university's current main building was built between 1877 and 1884 by Heinrich von Ferstel in the city centre of Vienna. Currently the university distributes the activities of its 15 faculties and 5 centres as well as those of the central administration on more than 60 locations. A total of 9.900 employees work for the university, about 70% of them in research and teaching.

9

NOBEL PRIZE
LAUREATES



©Universität Wien/ Barbara Mair

Nine scientists associated with the University of Vienna, through either research or teaching, have been awarded the most prestigious distinction in science: the Nobel Prize.

- Robert Bárány, otology - 1914: Nobel Prize for Medicine
- Julius Wagner-Jauregg, psychiatry - 1927: Nobel Prize for Medicine
- Hans Fischer, chemistry - 1930: Nobel Prize for Chemistry
- Karl Landsteiner, immunology - 1930: Nobel Prize for Medicine
- Erwin Schrödinger, physics - 1933: Nobel Prize for Physics
- Viktor Franz Hess, physics - 1936: Nobel Prize for Physics
- Otto Loewi, physiology and pharmacology - 1936: Nobel Prize for Medicine
- Konrad Lorenz, biology - 1973: Nobel Prize for Medicine
- Friedrich A. von Hayek, economics - 1974: Nobel Memorial Prize in Economic Sciences

1st

UNIVERSITY
IN AUSTRIA



©Universität Wien/ Gebhard Sengmüller

Besides being Austria's oldest university, the University of Vienna is also the biggest one. More than 6.800 scientists research in 15 faculties and 5 centres, from humanities to computer science.

They teach more than 88.000 students in 178 different study programs. 26.600 or about 30% of all students enrolled at the University of Vienna come from abroad. About 9.600 of the total student population graduates each year from either Bachelor, Master or PhD studies.

The University of Vienna strives to be a top-research and teaching university. It promotes international research and teaching cooperation on the basis of strong disciplinary research and identifies cross-sectional topics that can be worked on beyond the boundaries of disciplines and faculties.

VIENNA - AUSTRIA



no. 1

IN INTERNATIONAL
QUALITY OF LIVING



©WienTourismus/ Peter Rigaud - Café Sperl

In 2019, for the 10th consecutive time, Mercer has again ranked Vienna first in its international quality of living survey as the city with the highest quality of living worldwide. The study compares 230 cities worldwide based on 39 criteria such as political, social, economic, and environmental factors.

The survey, which included a separate ranking of each city's infrastructure for the first time this year, called the category "pivotal" in determining overall quality of living for expats. Factors assessed included: reliable electricity; drinkable water; the availability of telephone and mail services, and international flights from local airports; traffic congestion; and access to public transportation.

Source: <https://www.wien.gv.at/english/politics/international/comparison/mercer-study.html>

no. 2

THE WORLD'S MOST
REPUTABLE CITIES 2016



©WienTourismus/ Christian Stemper - Wiener Rathaus

The City RepTrak study from the global Reputation Institute ranks the world's 100 most reputable cities based on factors such as trust, esteem, admiration and respect. Among the attributes used for ranking, the two most important are whether the city is considered beautiful, and whether it is viewed as a safe place for visitors and residents.

A city's ranking is believed to be linked to the amount of support that a city can generate from its reputation in the form of business, travel, tourism and investment.

The Reputation Institute also tracks the reputations of global brands and companies across important international markets, interviewing 55,000 consumers across 15 countries.

Source: <https://www.thelocal.at/2014/1/28/vienna-has-worlds-best-reputation>

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INNOVATION CITIES
WORLDWIDE 2015

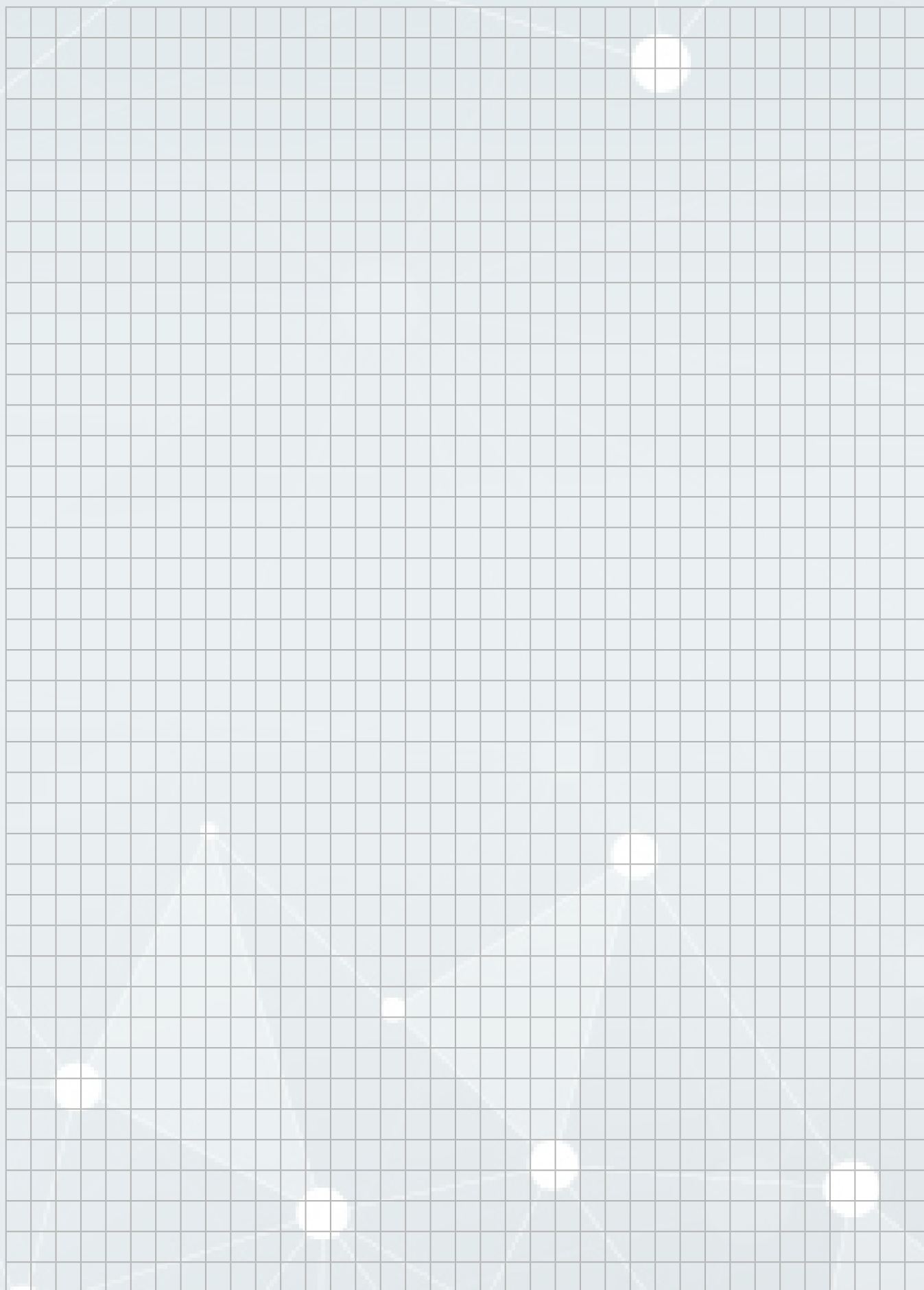


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The Innovation Cities Index measures the quantifiable drivers of innovation, which all form the pre-conditions for an innovation ecosystem. A total of 162 indicators is used for ranking 500 cities from all over the world. They are grouped in 3 main categories: Cultural Assets, Human Infrastructure and Networked Markets. This maps the process of innovation, from idea to implementation and communication. In 2015 Vienna was ranked the 3rd most innovative city in the world.

Source: <https://placebrandobserver.com/insights-innovation-cities-index-2016-2017/>

The NOTES



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