

PERSONAL INFORMATION



Dr. Muhamad Khairul Bahri

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Sex Male | Nationality Indonesia

WORK EXPERIENCE

- (2018 - now) **Scientific Researcher**
German Climate Service Center – GERICS www.gerics.de
 - Prepare deliverable materials for Climate Service Water-Energy-Land Nexus (CLISWELN) project and construct system dynamics models to understand the impacts of climate change on water-energy-land nexus (WELN).
 - Through the CLISWELN project, I conduct statistical analysis, literature review and then build system dynamics models relevant to the project
 - I also write and submit paper(s) relevant to CLISWELN project

Business or sector Service – Research - Consultancy
- (2008 - 2013) **Senior Lecturer**
University of Al Azhar, Indonesia
 - Teaching economics, macroeconomics, statistics, and system dynamics modelling.
 - Supervising undergraduate/master/PhD students

Business or sector Education
- (2001 - 2008) **Researcher**
The Bureau Planning and Development, Indonesia
 - Monitoring development programs in employment, economy, education and poverty eradication.

Business or sector Government – non profit
- (1997 - 2001) **Chief of Accounting**
Alang-Alang Boutique Resort, Senggigi, Lombok, Indonesia
 - Preparing the balance sheet and profit/loss report.
 - Cost Controller

Business or sector Tourism

EDUCATION AND TRAINING

- (1991 - 1996) **Bachelor's degree**

Bandung Institute of Technology (Indonesia) – Department of Industrial Engineering

- Economics, macro/microeconomics

(2007 - 2008) **Master's degree – Cum Laude**

Bandung Institute of Technology (Indonesia) – Department of Industrial Engineering

- System dynamics modelling, economics, macro/microeconomics and social-construction technology

(2013 - 2017) **Doctoral Degree**

Victoria University of Wellington (New Zealand) – School of Management and School of Geography, Environmental and Earth Sciences

- System dynamics modelling, climate change, climate change impacts and statistical analysis of climate change impacts

PERSONAL SKILLS

Mother tongue(s) Indonesia

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C2	B2	B2	C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

For Deutsche/Germany – **I am learning Deutsche**

Organisational / managerial skills

- Leadership
- leadership (I had supervised a team of 15 people)

Job-related skills

- Outstanding skill in system dynamics modelling for subjects in macroeconomics, climate change impacts, agriculture and watershed – Proficient user;
- Mastering system dynamics modelling using Vensim and Powersim – Proficient user;
- Statistical analysis such as time series analysis, model selection and model validation using statistical software applications– Proficient user.
- A proficient user for SPSS and Eviews
- Basic skill in QGIS – Independent user.

ADDITIONAL INFORMATION

Publications

PEER-REVIEWED CONFERENCE PAPERS

Bahri, M.K., Cavana, R.Y., Renwick, J., Corbett, L. (2016). Integrating statistical and system dynamics modelling to analyze the impacts of climate change on rice supply in West Nusa Tenggara, Indonesia: some findings (accepted in Asia Pacific System Dynamics Conference in Singapore, 2017);

Bahri, M.K., Cavana, R.Y., Renwick, J., Corbett, L. (2015). A preliminary system dynamics analysis of the impacts of climate change on the rice farming in West Nusa Tenggara, Indonesia. Poster presentation in the International System Dynamics Conference 2015 in Boston, USA.

Bahri, M.K., Cavana, R.Y., Renwick, J., Corbett, L. (2015). A system dynamics modelling in analysing of the impacts of climate change on the rice supply chain in West Nusa Tenggara, Indonesia. Paper presented in the ANZAM conference 2016 in Queenstown, New Zealand.
(Accepted as a paper presentation)

A statistical analysis of the impacts of climate change on the rice supply chain
(Accepted as a paper to the METSOC conference 2015 (Raglan, New Zealand))

SCHOLARLY PEER-REVIEW JOURNALS

Bahri, M.K., Cavana, R.Y., Renwick, J., Corbett, L. (2019). Integrating statistical and system dynamics modelling to tackle the impacts of climate change on rice supply. submitted to
Agricultural systems (<https://www.journals.elsevier.com/agricultural-systems>)

Bahri, M.K., Cavana, R.Y., Renwick, J., Corbett, L. (2018). Integrating statistical and system dynamics modelling to analyze the impacts of climate change on rice supply (under review in Journal of Simulation). A submitted paper into Journal of Simulation (under revision) (link.springer.com/journal/41273)

PROJECT DELIVERABLE MATERIAL

Deliverable 3.3: Integrated model with ad-hoc systemic model of urban water supply (2019). This material will be published soon. This material contains the integrated system dynamics model to understand the impacts of climate change on water energy land nexus. A case study in the Marina Baixa county, Spain.

Projects

Composing system dynamics models in many subjects such as environment (a garbage issue in city); the behavior of DDT in our environment; reproducing US economic model and the impacts of over-exploited of fish catchment.

Reproducing the system dynamics model i.e. the Limits to Growth in understanding the impacts of environmental degradation to humankind by 2100

Composing a system dynamics modeling to reproduce Indonesian macroeconomic model and assess whether Indonesia can be of the largest GDP in the world by 2050

Selecting some dynamics models to be included in system dynamics depository cases. I was a member for selecting system dynamics papers for depository cases in www.systemdynamics.org

Building many system dynamics models in assessing the impacts of environmental degradation on humankind and/or the economic system and system dynamics models to plan spatial planning in West Nusa Tenggara

Building development programs to support the sustainable development in West Nusa Tenggara. This includes poverty eradication, boosting economic growth and minimize environmental degradation.

Building, monitoring and assessing municipality programs in terms of sustainable development and good governance in Indonesia