

An experimental demonstration for interactive education in foresight and the 'collective futures intelligence'

# **WORKSHOP REPORT**

Gadjah Mada University / Nalar Institute:
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Version 1 JR

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#### 1) INTRODUCTION

This session was proposed as a demonstration of interactive education / policy innovation. We aimed to not only present the Foresight 3.0 principles and methods, and their application to key areas of public policy. We aimed also to launch an experimental session with hands-one participation in putting them into practice.

The result was a visionary demonstration of the 'creative collective intelligence'. With active participation from 180 undergrad / post-grad students at the School of Public Policy at GMU, in a full morning session, with numerous flipcharts and an online platform – we sketched a collective vision of the future for Indonesia.

Participants were asked to select one of 12 themes to work on. With around 10-15 persons in each theme, following 2 main blocks of 'lecture content', we worked collectively on some very practical questions for each theme;

- What are the 'Top 3 challenges' the current situation in your theme?
- How are things changing the 'Top 3 changes' expected by 2050?
- What is the potential the 'Top 3 opportunities' coming up y 2050??
- How to achieve them the 'Top 3 priorities' for action, now / soon / later??

Such questions are the starting point of the general approach of foresight, with established methods and tools for any kind of longer range strategic thinking. Building on this, the **Foresight 3.0** method aims to extend this, to enhance the 'collective foresight intelligence', firstly for the participants, and then for the wider community / society.

This short report includes:

- Summary of the results for each theme on the online platform, (including images of the posters where available: and translation from Bahasa via Google where needed).
- Outline notes on next steps and opportunities to take this forward.

Further background and sources are on <a href="www.manchester.ac.uk/synergistics/future-wise-foresight-indonesia/">www.manchester.ac.uk/synergistics/future-wise-foresight-indonesia/</a>

## 2) OUTLINE OF PROGRAM

#### **INTRODUCTIONS**

- Prof. Wahyudi Kumorotomo, Head of Public Policy & Management Dept, Universitas Gadjah Mada
- Dr Yanuar Nugroho, ISEAS Yusof-Ishak Institute, Singapore: Nalar Institute, Yogyakarta
- Joe Ravetz, Future Cities Lead, Manchester Urban Institute, University of Manchester

#### PART 1: 'POLICY 3.0' (Joe Ravetz)

- a) New policy landscapes
- b) Local place-making
- c) Public services
- d) 'Collective governance intelligence'

#### **INTERACTIVE 1:** (thematic groups)

- Top 3 challenges?
- Top 3 changes by 2050?
- (BREAK)

#### **PART 2: 'FORESIGHT 3.0'** (Joe Ravetz)

- a) Foresight methods & tools
- b) 'Collective foresight intelligence'
- c) Smart-wise policy
- d) Transforming policy

#### **INTERACTIVE 2:** (thematic groups)

- Top 3 opportunities??
- Top 3 priorities for action??

#### **REVIEW & DISCUSSION** (plenary)

#### 3) IMPLICATIONS & NEXT STEPS

Such demonstrations of interactive education / foresight have taken place over many years, under many different names. Now it seems there are some new and fundamental insights, to help navigate the challenges and find viable pathways to the future.

#### On the education front:

- The sudden disruption of education by AI puts more focus on the human side: i.e. the creative, intuitive, collaborative, strategic side of the human intelligence;
- Teaching / learning approaches (in many cases not all), are more likely to be dynamic, interactive, participative, collaborative, engaged, problem focused;

#### On the foresight agenda:

- The mapping of future challenges and opportunities shown here, by 180 young people, is a powerful signpost and resource for further development.
- Foresight / strategic thinking / policy development is now emerging as much more than a technical expert-driven process; in contrast we can explore many possibilities (see the special issue on www.manchester.ac.uk/synergistics/foresight-3-0-theme/
- 'Foresight as community of interest'
- 'Foresight as decolonization and empowerment'
- 'Foresight as political transformation'

#### On the collective intelligence agenda:

- This experiment with 180 young people for 3 hours is only the beginning of a much longer story...
- One approach is via informatics / AI, and the emerging agenda of CHAI ('collective human-artificial intelligence')
- Another approach is more about the human process and the methods of deliberation, creative thinking, collaborative innovation and co-production.
- The need is ever more urgent, and the possibilities ever more powerful...

Overall this experimental demonstration for interactive teaching has shown that such models are practical and effective. In one short session it has generated a unique body of material from young people who will be shaping their future. The Foresight 3.0 program will continue to explore the opportunities which follow.

## WORKSHOP RESULTS

#### 4) Platform introduction

(Text from the online platform at <a href="https://bit.ly/3Yv3AoQ">https://bit.ly/3Yv3AoQ</a>

"Good morning everybody and welcome to our online comment platform.

We need your best ideas and questions...

If you would like to join the mailing list please leave your name & email

Everyone is in full 'edit' mode on this shared document, so please be careful with the comments of others. You can find free space at the end of the document.

# Q1 - IS THIS GOOGLE-DOC THE BEST ONLINE PLATFORM FOR COLLABORATIVE THINKING??

A1 - there are many possibilities .... we use Mural or Miro for online workshops: Mentimeter for polls: Kumu / Insight Maker for systems mapping & modelling. This basic googledoc seems the most easy and simple to get started, also easy to do from a phone without any preparation (but for China we need an alternative platform).

#### Q2 - WHAT IS A GOOD SOURCE TEXT FOR FORESIGHT ??

Miles, I., Saritas, O. and Sokolov, A. (2016) Foresight for Science, Technology and Innovation, New York, Springer.

#### Q3 - WHAT IS A GOOD SOURCE TEXT FOR FORESIGHT 3.0??

A3 - <u>Deeper-City: Collective-Intelligence-and-the-Pathways-from-Smart-to-Wise - https://doi.org/10.4324/9781315765860</u>

extract on Foresight 3.0 is available on - <a href="https://tinyurl.com/3wztx4h5">https://tinyurl.com/3wztx4h5</a>

extract on the synergistic approach & toolkit on - https://tinyurl.com/yxsenkjv

#### 5) Climate change theme

#### **TOP 3 CHALLENGES?**

The main challenges of the climate change issue:

- 1) Society behavior, we cannot deny the fact that some people are still naive, ignorant, lack of initiative, however, people who care about climate change also exists but the lack of information and have no idea where to start their own climate journey are one of the problems too, which leads to our second point
- 2) Government, we need leaders who care about climate problems, the inefficient of environmental policy, corruption, etc.
- 3) Capitalism, misjudgement of priority and too money-oriented, also poverty.

#### TOP 3 CHANGES BY 2050?

- 1. if there's an election, we have to choose the leaders who are aware
- 2. make a mass Campaign to awaken the public awareness through social media
- 3. There has to be a Curriculum that provides information for students about climate change, thus they know on how to start their climate journey

#### TOP 3 OPPORTUNITIES??

#### SYNERGIES...

- -Public Transport
- -Area of Industry
- -Environment system with 3 policies (water, air, trash)

- changes in lifestyle "environment friendly lifestyle"
- · changing country's budgeting
- government needs to cooperate with influential people in order to promote

## 6) ENERGY / WATER / FOOD

#### **TOP 3 CHALLENGES?**

- Scarcity
- Lack of governance
- Non renewable resources

#### TOP 3 CHANGES BY 2050?

- Transition in everything
- Disperse the population
- Fix the bureaucracy

#### TOP 3 OPPORTUNITIES??

- Abundance of green energy
- New ways to new resources
- Collaboration within society

- Empower the people
- Invest in technology and education
- Enforce wise governance

#### 7) SOCIAL & DEMOGRAPHIC CHANGE

#### **TOP 3 CHALLENGES?**

- Economic Growth
- Land Availaibility
- Quality of Human Resource

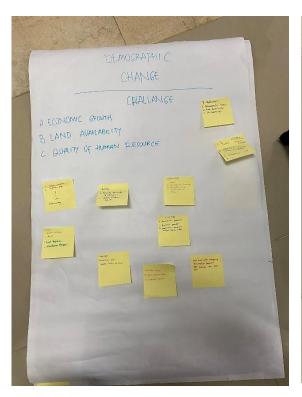
#### TOP 3 CHANGES BY 2050?

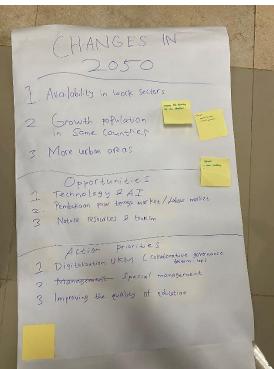
- Availability in work sectors
- Growth population in some countries
- More urban areas

#### TOP 3 OPPORTUNITIES??

- Technology and AI
- Labor Market
- Nature Resources & Tourism

- Digitalization Micro Economic Market (UMKM)
- Spatial Management
- Improve quality of education/ Human Resource Development





#### 8) CULTURE & CREATIVE INDUSTRY

#### •TOP 3 CHALLENGES?

Permodalan, Prospek, Westernisasi/Pencampuran Budaya

- Capital,
- Prospects,
- Westernization/Culture Mixing

#### •TOP 3 CHANGES BY 2050?

Perkembangan teknologi, Exposure media, Asimilasi (lunturnya budaya), Global exposure

- Technological developments,
- media exposure,
- assimilation (fading of culture), global exposure

#### •TOP 3 OPPORTUNITIES??

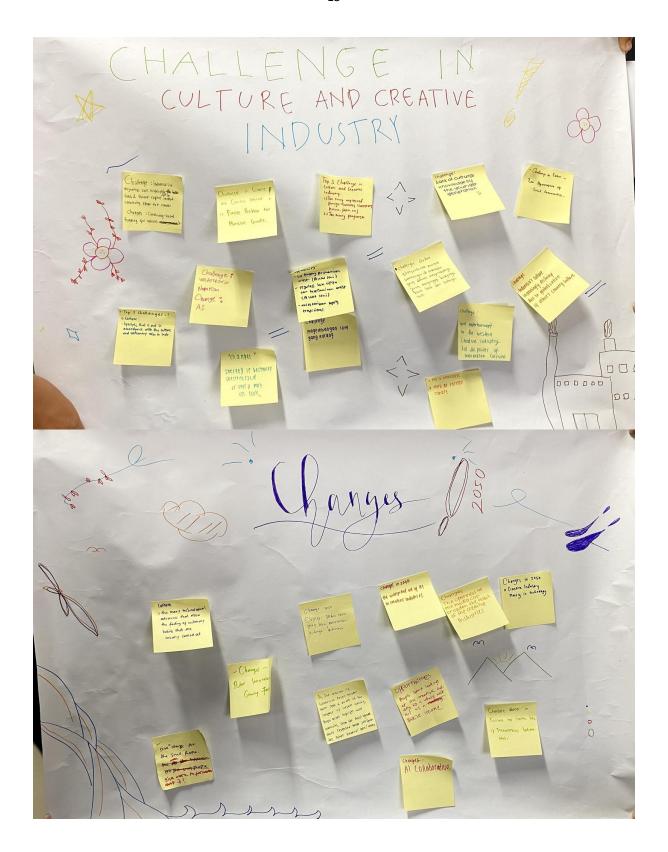
UU Tentang perlindungan artis (pelaku seni), regulasi hak cipta, dan keterjaminan artis (pelaku seni), melestarikan lagu lagu tradisional

- Law concerning the protection of artists (artists),
- copyright regulations, and
- guarantees for artists (artists), preserving traditional songs

#### •TOP 3 PRIORITIES FOR ACTION??

Melestarikan budaya dan jati diri bangsa, Regulasi keterjaminan pelaku seni, Sosialisasi tentang pelaku seni

- Preserving culture and national identity,
- · Regulation of guarantees for artists,
- Socialization about artists



#### 9) HEALTH

#### •TOP 3 CHALLENGES?

- Distribution of health worker in all corners of Indonesia
- Lack of supporting medical device
- Easy access to health services for people who can't afford it

#### •TOP 3 CHANGES BY 2050?

- Equalizing quality health workers through the corners of Indonesia
- Additional funds for the health fund and distributing medical devices
- Make policies on BPJS rights and services, because BPJS is not the priority

#### •TOP 3 OPPORTUNITIES??

- With so many natural resources in indonesia, they must utilised for health needs
- BPJS program can be develop
- Developing hospital in indonesia bcs its huge land

- Government must support all hospital or healthcare
- Government must increase the fund for hospitality and healthcare
- Government must increases human resources in health care sector

#### 10) EDUCATION

#### •TOP 3 CHALLENGES?

- 1. Inclusifities of Education
- 2. The prosperousity for teacher
- 3. The teacher's stigma

#### •TOP 3 CHANGES BY 2050?

- 4. Produce a high quality teacher
- 5. Excellent education curriculum
- 6. Affordable school fees for all groups and facilities for disabilities

#### •TOP 3 OPPORTUNITIES?

- 7. Well targeted scholarships and education fund
- 8. Decent income and high selectivity for teachers
- 9. Government fund transparency for education sector

- 10. Additional allocation for education, mainly for education in rural areas
- 11. Eradicate corruption, collusion, and nepotism in teacher and school selection.

#### 11) SCIENCE/ TECH/ INNOVATION

#### •TOP 3 CHALLENGES?

- Artificial intelligence and technology disruption
- Population/demographic growth
- Moral (humanity) issues and values
- Environmental impact and climate change

#### •TOP 3 CHANGES BY 2050?

- Human jobs are replaced by machines massively
- Environmental and energy crisis
- Food crisis

#### •TOP 3 OPPORTUNITIES??

- Resilience culture, community initiative
- Further Humanistic science, further Humanistic technology
- Inclusive policy

- Inclusive education (formal & non-formal)
- Collaborative governance
- Encouraging community based/grassroots innovation

## 12) ECONOMY & BUSINESS

#### •TOP 3 CHALLENGES?

- Unemployment
- Income inequality
- Inflation

#### •TOP 3 CHANGES BY 2050?

- Equal education opportunity
- SME's empowerment
- HR skills and capacity

#### •TOP 3 OPPORTUNITIES??

- rich natural resources
- nature resource
- internet and gadget access

- Improving infrastructure
- Human resources productivity
- Income distribution





#### 13) Local Place Development

#### •TOP 3 CHALLENGES?

- 12. Al platforms reduce connection with local
- 13. Mass movement & migration local places are full of strangers
- 14. Houses in high quality areas are available only for the elite

#### •TOP 3 CHANGES BY 2050?

- 15. Re-structuring of urban & rural
- 16. Climate change makes many areas unlivable
- 17. Many areas go to new forms of informality

#### •TOP 3 OPPORTUNITIES??

- 18. New ways of participation & inclusion
- 19. Changes in female-male relationships
- 20. New models for education so kids are more connected to the local area

- Every local area has a 'forum' or some way to make decisions
- Every local area has a 'foresight' platform & program for thinking about the future
- Every local area has 'community stewards' who can connect with other parts of government

#### 14) National Development

#### •TOP 3 CHALLENGES?

- Downstream Industries
- Demography Bonus
- Development Equality and Economics

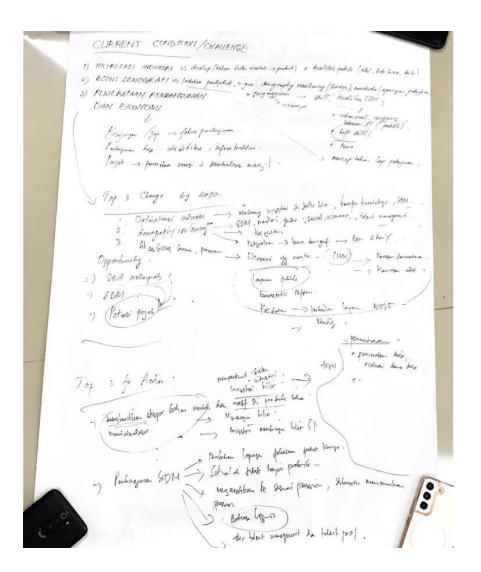
#### •TOP 3 CHANGES BY 2050?

- Industry Optimization
- Demography resiliency
- Increase of Accesibility or Infrastructure Development: equality economic, public service, beaurecratic reform, public health system => universal health coverage

#### •TOP 3 OPPORTUNITIES??

- Rich Natural Resource
- Human Resource
- Tax Potential

- Minimalize export of raw materials and strengthening investment system on downstream industry
- Human Resource Development
- Development Equality and Supervising development on village and rural areas



#### 15) GOVERNMENT & BUREAUCRACY

#### •TOP 3 CHALLENGES?

- Korupsi, Kolusi, dan Nepotisme
- Lambatnya Birokrasi
- Kualitas SDM Aparatur Birokrasi
- Corruption, Collusion and Nepotism •
- Slow Bureaucracy •
- Quality of Human Resources for Bureaucratic Apparatus

#### •TOP 3 CHANGES BY 2050?

- Digital Transformation
- Reformasi Birokrasi
- Regulasi Pendidikan
- Digital Transformation •
- Bureaucratic Reform •
- Education Regulations

#### •TOP 3 OPPORTUNITIES??

- 1) Lambatnya Birokrasi
- Penggalakan reformasi birokrasi
- Transformasi digital
  - 2) Korupsi, Kolusi, dan Nepotisme
- Penguatan integritas lembaga penegak hukum
- Meritokrasi
  - 3) Kualitas SDM ASN yang Rendah
- Meritokrasi
- Pengawasan Kinerja
- 1. Slow Bureaucracy
- Promoting bureaucratic reform
- Digital transformation
- 2. Corruption, Collusion and Nepotism

- Strengthening the integrity of law enforcement agencies
- Meritocracy
- 3. Low quality of ASN human resources
- Meritocracy
- Performance Monitoring

- Penggalakan reformasi birokrasi
- Meritokrasi
- Pengawasan kinerja dan penguatan lembaga penegak hukum
- Promoting bureaucratic reform
- Meritocracy
- Monitoring the performance and strengthening of law enforcement institutions

# ) PPORTUNITY

- \* LAMBATHTA BIROKRASI
  - PENGGALAKAN REFORMASI BIROKRASÍ () TRANSFORMASÍ DÍGÍTAL
- \* KORUPSI, KOLUSI, NEPOTISME
  - RENGUATAN INTEGRITAS LEMBAGA () PENEGAK HUKUM (2)
  - MERITOKRASI
- \* KUALITAS SOM ASN TANG RENDAH
  - MERITOKRASÍ
    - PENGAWASAN KINERJA 3

# PRIORITY

- 1 PENGGALAKAN REFORMASI BIROKRASI
- 2 MERITOKRASI
- 3 PENEAWASAN KÍNEPÍA & PENEVATAN LEMBAGA PENEGAK HUKUM

# TOP 3 THALLENGES Hualitar SDM Agarahur Birokrari 1. Frence primes. Regular 1. Peginalisasi penyanan dan Pengalahan lapara bermaan 3. Transpurmas shruthar Ordinasi pon "huya Strukur mishin fanghi" Regi "Milliam shrifithir janghi Euroshill

# TOP 3 CHALLENGE

- 1. Korupsi, Kolusi, dan Hepotisms
- 2. Lambarnya Birokrasi
- 3. Kualitar SDM Aparatur Brokrasi

# TOP 3 CHANGES BY 2050

- 1. Digital Transformation
- 2 Reformasi Birohrasi
- 3. Regulasi Pendidihan

Takongae Nafarah (takoformasi dagan alaan membannasia fologiman) e) faparasi binokongi i) for kembarjan (rurola); rombari- tomer (rurola); rembarihan reshki)

1) Digital Transportation
2) Reportation Bredstan
D Regulation Pendidean