“Observatory/Watcher DSS” for Informational Transparency and Normative Symmetry

Mikiyasu Nakayama
Graduate School of Frontier Sciences
The University of Tokyo
## Information and Norm

<table>
<thead>
<tr>
<th>Informational Uncertainty</th>
<th>Normative Uncertainty</th>
<th>Unstructured Problem</th>
<th>Semi-structured Problem</th>
<th>Structured Problem</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIGH</td>
<td>HIGH</td>
<td>Issues with widespread recognition that the status quo needs to be addressed and requires complex solutions.</td>
<td>Requiring resolve on the means of addressing the problem.</td>
<td>Addressing the problem can be done with existing techniques.</td>
</tr>
<tr>
<td>LOW</td>
<td>LOW</td>
<td>Requiring resolve on the ends to address the problem.</td>
<td>Semi-structured problem</td>
<td>Structured problem</td>
</tr>
</tbody>
</table>

Adapted from Hisschemöller and Hoppe 2001: 51-52
Informational Transparency and Normative Symmetry among Decision Makers

Are decision makers moving to **right direction**?

<table>
<thead>
<tr>
<th>INFORMATIONAL UNCERTAINTY</th>
<th>NORMATIVE UNCERTAINTY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>HIGH</strong></td>
<td></td>
</tr>
<tr>
<td>Issues with widespread recognition that the status quo needs to be addressed and requires complex solutions</td>
<td>Requiring resolve on the means of addressing the problem</td>
</tr>
<tr>
<td>Semi-structured problem</td>
<td>Structured problem</td>
</tr>
</tbody>
</table>

Can we do this? Yes. We can!
Original Concept of “Observatory/Watcher DSS”

Information to be provided by DSS for both citizens and decision makers

Disparity?
On-Going Efforts
Quantification of Information Transparency

✓ Local Newspaper versus Nationwide Newspaper regarding Fukushima evacuees by Madoka, Maiko, Daisuke and Miki.

✓ Controlled Media (Russian Times) versus Uncontrolled Media (BBC) regarding Syrian Refugees by Hiro (Fujibayashi), Daisuke and Miki, in association with the Khalifa University.

✓ Between Controlled Media (Vientiane Times versus Phnom Phen Times, after Misuzu’s work) on Xayaburi Dam by Daisuke and Miki.
ARGUMENT ANALYSIS OF CONFLICT IN MEKONG RIVER WATER DEVELOPMENT
: A CASE STUDY OF XAYABURI HYDROPOWER PROJECT

2014.02.11
Univ. Tokyo
Misuzu MUROTA
• Newspaper (2010-2013.8)

**Vientiane Times** *(Laos):* 65 articles
- Government-controlled newspaper

**the Phnom Penh Post** *(Cambodia):* 81 articles
- State press

**VietNam News** *(Vietnam):* 15 articles
- State media

**Bangkok Post** *(Thai):* 6 articles
In the Sphere of Technology

✓ Tools built-in in KH Coder

✓ Word2Vec: “Vector-is-ing” words by Tomas Mikolov of Google.

✓ Doc2Vec: “Vector-is-ing” texts. Codes in Python/gensim are available as open source.

✓ Doc2Vec “vending machine” web-site by Yosuke?

One More Step to Go?

✓ Comparison of “resemblance among texts” by machine and the humanity (by experiments).
Schedule (subject to budget)

Publication of Articles

✓ Individually or as Thematic Issue of an e-journal?

One more expert meeting?

✓ In November/December 2016 in Tokyo?

Final Symposium?

✓ In February/March 2018 in Tokyo or Kyoto?
Published Articles (thanks to your efforts!)


