# Effectiveness criteria for measuring impact assessment tools



SEA Implementation and Practice:
Making an Impact?
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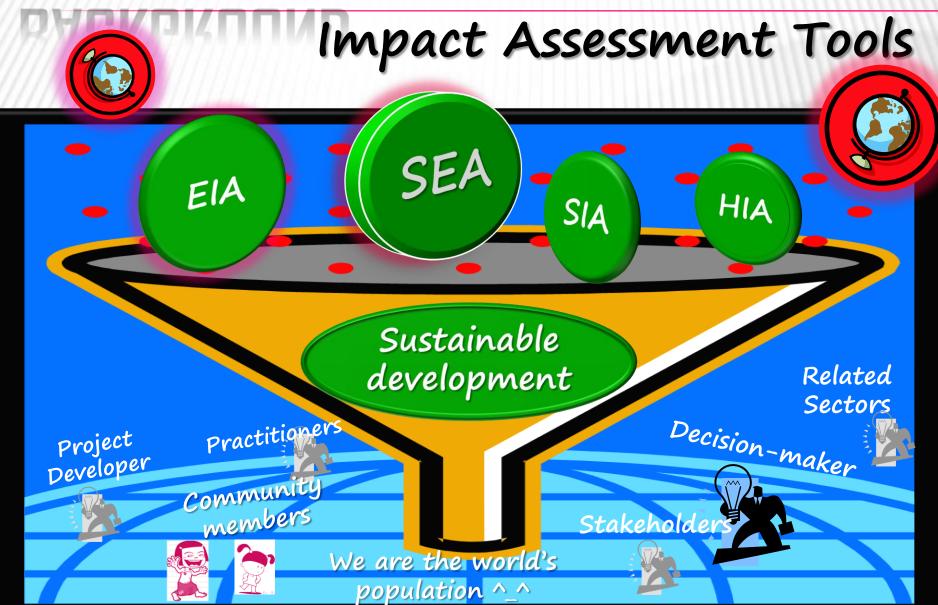




- Conceptualisation
- Potentials
- Application
- Reflections
- Conclusions

# BACKGROUND





## RESEARCH AIMS



WED EXICH AIMS

To conceptualise effectiveness criteria for measuring impact assessment tools



# Effectiveness concept and its definitions

# Effectiveness:

'how Well something works or whether it works as intended and meets the purposes for which it is designed' (Sadler, 1996, p.37)

'Influence' on decision-making processes

(Partidário, 2000, Van Buuren and Nooteboom, 2009)

# Perspectives

#### CONCEPTUALISATION OF EFFECTIVENESS CRITERIA

P1: Relevant policy framework

P2: Institutional infrastructure

P3: Integrating SEA/IA in planning

P5:Stakeholder involvement

T1:Time invested

T2:Sufficient money

IA

T3:SEA/IA practitioners' skills

T4:Specification of Roles

T5:Availability of human resources

S1: Regulatory framework on implementing SEA/IA

S2:Proposed changes

Eff

Transactive

Normative

N3:Changes in relevant institutions

S3:Informed decisions

**S4**:Close collaboration

S5:Parallel development

S6: Early start

S7:Institutional benefits

S8:Successful statutory

consultation

59:Successful public

consultation

S10: Using the comments from SEA/IA in DM

N1:Policy framework adjustment

N2:Perception

N4:Quality of life improvement

lmpact Assessme effectiveness

Based on Theophilou et al. (2010), Caussy et al. (2003), Baker and McLelland (2003), Bekker et al. (2005), Van Buuren and Nooteboom (2009), Partidário (2000), Arden (2004), Quigley and Taylor (2004), Harris-Roxas (2009), Sukkumnoed et al. (2002), Ross et al. (2006), Sandham and Pretorius (2008), Petticrew et al. (2007), Kauppinen et al. (2006), Stoeglehner et al (2009)

#### WHY THIS FRAMEWORK SHOULD BE USED?

- + Procedural effectiveness: P4 financial resource
- + Substantive effectiveness: S10 IA user satisfactions
- + Transactive effectiveness:

  T5 Human resource availability and capacity building

+ Normative Effectiveness

#### WHY THIS FRAMEWORK SHOULD BE USED?

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- More application, more complications
  (Bina, 2007)
- Awareness, visions, beliefs, and values

(Cashmore et al., 2004)

- Knowledge gap

(Nykvist and Nilsson, 2009)

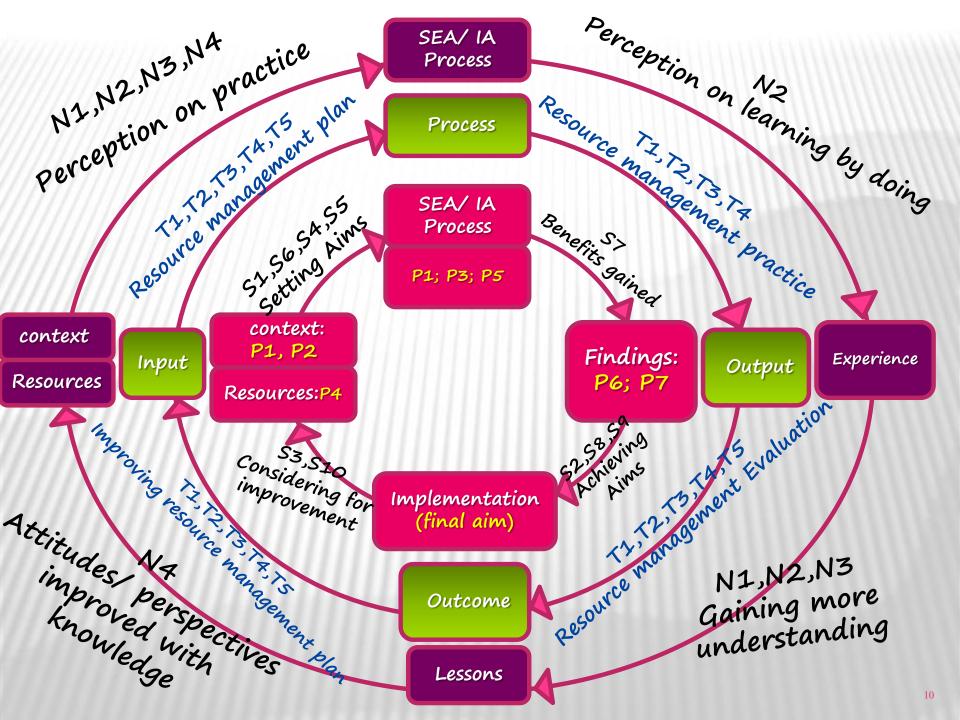
- Culture and contexts

(Stoeglehner et al., 2009, Jha-Thakur et al., 2009, Theophilou et al. (2010).

#### WHY THIS FRAMEWORK SHOULD BE USED?

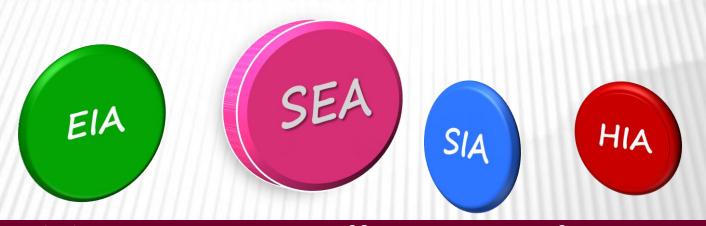
- Influence of the 'context of understanding and implementing IA legislation and guideline' (suggested by Stoeglehner et al., 2009)
- Requirement of more understanding
- Influence of normative components

## Normative Effectiveness



# APPLICATION OF THE FRAMEWORK TO OTHER IMPACT ASSESSMENT TOOLS





Equal validity to measure effectiveness of other IA tools

Provides additional perspectives to consider in procedural, substantive and transactive categories

Provides normative category

Is broader when applying in different contexts

#### APPLICATION OF FRAMEWORK TO A CASE STUDY



# Potash mine HIA case in Thailand





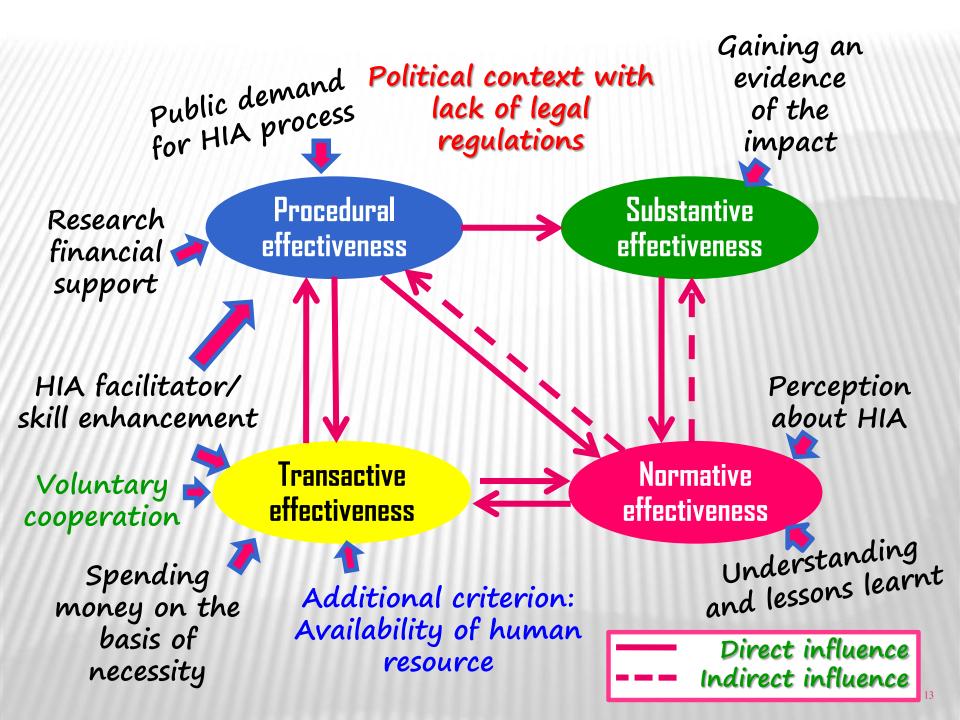
### REFLECTIONS ON THE EFFECTIVENESS CRITERIA



Lack of regulations on HIA (Procedural criteria category)



Interlinks between the effectiveness categories



#### REFLECTIONS ON THE EFFECTIVENESS CRITERIA





Lack of regulations on HIA (Procedural criteria category)

Interlinks between the effectiveness categories



Levels of the process involvement and knowledge in considering the effectiveness



Additional criterion: T5 Availability of human resource

# CONCLUSIONS

\* Provides insights of nature and significance of interlinkages and dependencies between the framework criteria



- \* Normative effectiveness is an essential perspective to consider
  - \* Public participation
  - \* Human resource and capacity building
- \* More research on applying this framework in IA fields is required as well as longitudinal study for normative change consideration



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