

Action Plan and Budget 2016

Global Decision Support Initiative (GDSI)

Approved by GDSI's Steering Committee 4. December 2015

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1. Introduction

The 2016 action plan for GDSI, the Global Decision Support Initiative, was developed in September 2015 and endorsed by the AB for approval by the Steering Committee 24 September. The plan describes the planned activities in the GDSI for its second year.

2. Education and teaching

Project / area	Description	Objective for 2016	Responsible
Expert seminars	Internationally renowned scientist will be invited to present work of relevance to the GDSI. Some will be invited to become permanent members of GDSI's international expert network.	<ul style="list-style-type: none">• Inspire the development of the GDSI• Build an international network with centers and individual scientists working in GDSI's cross-disciplinary research field.• Support DTU's strategy for scientific advice and innovation.	Director + Academic Board
Journal club	In collaboration with the director and the Academic Board and post-docs find and invite experts for journal club meetings for PDs, PhDs and professors of the GDSI on a monthly basis throughout 2016. A typical journal club meeting, as initiated in the spring 2015 includes a 45 min presentation and 30 minutes of discussion.	<ul style="list-style-type: none">• Support the learning of cross-disciplinary subjects of relevance to the GDSI.• The director saves all presentations and discussed papers in Share-DTU accessible from the GDSI website under the member's log-in.	Director + PDs + Academic Board
COSI, Copenhagen Sustainability Initiative	GDSI collaborates on behalf of DTU with CBS and CPHU on organizing sustainability seminars.	<ul style="list-style-type: none">• To arrange at least 6 seminars on sustainability in collaboration with Copenhagen University and Copenhagen Business School.	Director + mzha
COSI, Copenhagen Sustainability Initiative	GDSI collaborates on behalf of DTU with CBS and CPHU on two Master Certificate Courses for students at all three universities.	<ul style="list-style-type: none">• To repeat the two courses initiated in the autumn 2015.	mzha/siol
One-Health Summer school teaching	One-Health summer school provides knowledge, skills and competences regarding efficient solutions to the multifaceted global challenges to human, animal and environmental health through cross-disciplinary research, education and collaboration between relevant institutions and stakeholders.	<ul style="list-style-type: none">• A GDSI professor co-organize and teach this summer school.• A GDSI PD will be supervisor of the case study "endocrine disrupters".• To learn from this approach reg. future GDSI teaching.	tiha/ebor
MSc and BSc students	GDSI postdocs supervise master and bachelor students in collaboration with staff at QSA/ME.	<ul style="list-style-type: none">• Supporting teaching at QSA/ME of relevance to the GDSI	Simi/sgeo

3. Research

3.1 New initiatives and development of existing research areas

The research related to risk- and sustainability management and decision support in the six areas: Food, Environment, Transport, Compute, Management and Civil Engineering will be further developed during 2016. In addition new research areas will be initiated and integrated in existing cross-disciplinary research concurrent with the planned expansion of the GDSI in 2016.

3.1 Project / area	Description	Objective for 2016	Responsible
Expansion	The GDSI will accept more institutes/centers as full members by mid-2016.	<ul style="list-style-type: none"> • Broaden the scientific scope • Secure that GDSI grows beyond its present below-critical number of PDs, PhDs and professors. 	Director + Academic Board
Individual PD work plans	Revised work plans for each PD	<ul style="list-style-type: none"> • The PDs will revisit and revise their work plans 1 March and 1 September 2016 and present it at (1) an AB-meeting (2) his/her mother institute 	Yado, ebor, sgeo, stman, hjds, simi + academic board
Establish more strategic funding plans	The GDSI Academic Board Each works towards a more strategic approach to funding, rooted in academic profiles and strategic development objectives	<ul style="list-style-type: none"> • Based on academic profiles identify prioritized funding sources • Develop a plan for addressing prioritized sources over coming periods 	all AB-members
Research proposals	Research applications will be submitted to HZ2020 and other funding bodies.	<ul style="list-style-type: none"> • Establish GDSI with new funds through research applications. The funds will belong to the involved institutes in the ratio of their involvement. 	
Exchange of ideas and potential collaboration with global initiatives similar to GDSI	Meet with individuals and centers with GDSI-like initiatives	<ul style="list-style-type: none"> • The director will visit potential collaboration partners to establish collaboration and – if relevant –invite key players to DTU and possibly to the 2nd GDSI off-campus meeting in June 2016. 	Director
International expert network	Initiate establishment of GDSI international expert network	<ul style="list-style-type: none"> • Identify candidates for GDSI's international network of experts • Invite relevant candidates for expert seminar, e.g. at GDSI strategy seminar or in relation to expansion of GDSI 	Director + AB members

3.2 Publications and presentations

Project / area	Description	Objective for 2016	Responsible
Research	At least one research paper per PD and one per professor with relevance to GDSI will be submitted to international journals of high standing	<ul style="list-style-type: none"> • A total of 18 journal papers related to GDSI submitted by the AB and PDs before 31 December 2016. 	PDs+Academic Board
Conference contributions	At least one conference contribution per PD and one per professor will be submitted to an international conference	<ul style="list-style-type: none"> • A total of 12 conference contributions related to GDSI before 31 December 2016 	All PDs

3.3 Planned applications*

**Note: A large number of applications have not been planned yet.*

4. Research-based consultancy

The Steering Committee will in dialogue with the director and the AB develop a strategy for GDSI's consultancy activity, where a first step is to identify synergies with existing DTU consulting tasks. The consulting tasks cannot begin before the modelling tools are sufficiently developed and tested on GDSI sample projects within the participating GDSI institutes.

5. Innovation

5.1 Student innovation - Is not expected to be initiated in 2016.

5.2 Collaboration with enterprises - Is not expected to be initiated in 2016.

5.3 Commercialization - Is not expected to be initiated in 2016.

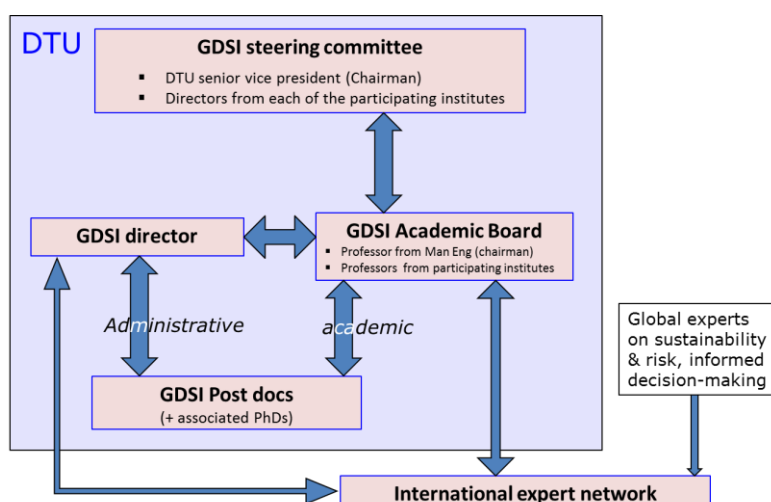
6. Partnerships

6 Project / area	Description	Objective for 2016	Responsible
COSI	GDSI has from the beginning been a partner in COSI, collaboration on sustainability research, education and innovation between DTU (GDSI), CU (SSC, Sustainability Science Centre; http://sustainability.ku.dk/da) and CBS (CP, sustainability platform; http://www.cbs.dk/viden-samfundet/business-in-society/sustainability).	<ul style="list-style-type: none">• Develop a common COSI homepage• Develop core courses for a COSI joint Master Certificate• Take initiative to public talks by internationally recognized speakers to be hosted at the three Universities in turn, and to include 'opponents' from non-hosting Universities.	Director, mzha
NTU	Initiate collaboration with Nanyang Technical University about the GDSI concepts and models	<ul style="list-style-type: none">• Establish collaboration project with the food safety area at Nanyang Technical University/prof. Jørgen Schlundt	Director, tiha, mzha,
Other	Initiate collaboration with other relevant Universities	<ul style="list-style-type: none">• Search, contact and visit the most relevant potential partners	Director

7. Human resources

7.1 Organization

The organizational diagram:



The Academic Board meets 10 times during 2016 for 3–4 hour meetings, and the Steering Committee will meet at least twice in 2016. The international expert network is planned to be appointed in first half of 2016.

7.2 Leader and leadership development

The director continues in work environment related education initiated 2015 during 2016-2017.

7.3 Employee development

PDs are allocated a 2016 budget of 20.000 kr. by their mother institutes for participation in off-campus meeting, courses and conferences.

7.4 Attracting and recruiting

Recruiting as financed by external funds aimed at supporting GDSI's research and possible expansion of the GDSI to include more DTU institutes and individuals.

8. Material resources

8.1 IT

Software will be kept updated.

8.2 Laboratory equipment/scientific infrastructure

None

8.3 Premises

The GDSI operates out of two large and a small office B424 R205+R207+R208. This is expected to suffice for 2016. Further furnishing will be kept within a GDSI-budget of 15.000 kr.

9. Communication

- Will follow the plan for communication developed by the director in collaboration with the Academic Board in the first half of 2016
- GDSI'S homepage will be kept updated by the director and PDs
- Printed communication material will be developed by the director in collaboration with the AB. The original flyer will be updated.
- The development in the GDSI will be written and submitted to the local newsletter at each GDSI institute when concrete results appear from the PDs and AB.

10. Process and employee involvement

The Action Plan 2016 has been developed mainly through discussion between the director and the Academic board. In 2017 we envision a larger participation by the PDs.

The action plan serves as a main document for regular discussions with the GDSI steering committee and the host institute, DTU Management. Discussions with DTU ME follow the DTU 'årshjul' (UMV, action plan and annual report preparation).

11. Budget

2016 budget as adopted by the AB and Steering Committee in September 2015. The budget will be revisited in September 2016 with a possible increase of 6×10.000 kr.

Support from the 6 institutes: 6×75.000 kr. = 450.000 kr. (Cap)

Courses/transport/travels/conferences (director)	80.000 kr.
Invitation of experts to off-campus meeting June 2016	80.000 kr.
Meeting expenses of GDSI's AB incl. director's off-campus expenses	30.000 kr.
Office furniture, decoration and other expenses	15.000 kr.
Communications, branding, events	10.000 kr.
Collaboration with QSA (office equipment, meetings, etc.)	10.000 kr.
Software (e.g. Simapro)	20.000 kr.
COSI annual meeting (2016)	5.000 kr.
<u>Total:</u>	<u>450.000 kr.</u>

It is assumed that PDs, professors and steering board committee cover their own expenses for the 2-day off-campus meeting June 2016.