



Workshop van de SedNet WG Education, Science, Policy Interfacing & Sediment Management Concepts

**Draft Minutes SedNet Working Group ESPI-SMC Meeting held on 20-21 November 2019,
Madrid, Spain**

Present:

Tino	Manso	Witteveen+Bos Belgium NV	Belgium
Vera	Breitung	Federal Institute of Hydrology	Germany
Kevin	Taylor	University of Manchester	UK
Elena	Romano	ISPRA - National Institute for Environmental Protection and Research	Italy
Antonella	Ausili	ISPRA - National Institute for Environmental Protection and Research	Italy
Emmanuel	Branche	EDF-CIH	France
Marta	Castellote	Institute of Construction Science Eduardo Torroja (IETcc-CSIC)	Spain
David	O'Connell	Trinity College Dublin	Ireland
Nieves	García de Blas	Institute of Construction Science Eduardo Torroja (IETcc-CSIC)	Spain
Carmen	Casado Martinez	Ecotox Centre Eawag-EPFL	Switzerland
Len	Racioppi	ExxonMobil	USA
Mónica	Estupiñán	AZTI Foundation	Spain
Edward	Van Keer	Flemish Administration - Department of Mobility & Infrastructure	Belgium

Absent:












Marco	Wenseveen	Port Authority of Rotterdam	The Netherlands
Eric	De Deckere	Port Authority of Antwerp	Belgium
Keith	Torrance	University of Strathclyde	UK
Ahmad	Seiar	Yokohama National University Institute of Urban Innovation (Civil Engineering)	Japan
Erik	Mosselman	Deltares	The Netherlands
Ilka	Carls	Department of Environment and Energy	Germany
Jos	Brils	Deltares	The Netherlands

Date:
16 December 2019

Attachments:

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Naam	Gewijzigd op	Type	Grootte
 Annex A - Invitation workshop SedNet WG SPEI Madrid.pdf	12/11/2019 13:21	Adobe Acrobat D...	152 kB
 Annex B - Draft program of the Workshop SedNet WG SPEI v3.docx	21/11/2019 18:38	Microsoft Word-d...	36 kB
 Annex C - SedNet - Policy Brief.pptx	16/06/2017 16:40	Microsoft PowerPo...	6 537 kB
 Annex D - ICPR-sedimentmanagementplan.pdf	26/11/2019 15:01	Adobe Acrobat D...	1 730 kB
 Annex E - ICPR-sedimentmanagementplan.pdf	26/11/2019 15:01	Adobe Acrobat D...	3 296 kB
 Annex F - Flemish Sediment Management Concept 2022-2027.pptx	20/11/2019 14:45	Microsoft PowerPo...	1 602 kB
 Annex G - SEDNET mtg discussion.pptx	19/12/2019 16:08	Microsoft PowerPo...	4 432 kB
 Annex H - 2019-11-19_MERCLUB-presentation_ME_Final.pdf	5/12/2019 10:08	Adobe Acrobat D...	1 111 kB
 Annex J - 1 The Sediment Game.pptx	21/11/2019 12:11	Microsoft PowerPo...	47 kB
 Annex J - 2 SedNet input Tino for Guidance document.png	26/11/2019 15:14	PNG-bestand	392 kB
 Annex J - 3a 20191122-SEDNET_WG_SPEI-Game-Dams&Sediments-EB...	26/11/2019 15:20	Microsoft Word-d...	59 kB

Annex I and K can be found below in this document itself.

1. Opening

A short getting to know round of the table was done at the beginning of the workshop.

After that Edward Van Keer shortly explained the goals of this workshop (see also [annex A](#): the invitation document).

The main objectives of the workshop are:

- To exchange information about sediment management concepts
- To brainstorm about how to create a Guidance Document to make sediment management concepts
- To brainstorm about how a Sediment Management Game could look like.

The third version of the agenda was proposed and accepted (see [annex B](#)).

2. Presentations of (the making of) Sediment Management Concepts/Plans

Edward Van Keer first presented the SedNet Policy Brief “Effective River Basin Management needs to include Sediments”, released in 2017 at the SedNet Conference in Genua (see presentation in [annex C](#)).

- It stipulates why policy makers should include sediments in their river basin management
- It was well received by the delegate of the European Commission and also send to all water directors of the EU.

The sediment management concepts from the Rhine and the Elbe were first presented by Vera Breitung (see presentations in [annex D & E](#)).

- It were the first SMC's for a whole (international) river basin.
- Implementation of the concepts is not so easy. But it can speed up action, for example in The Netherlands actions were already taken due to it.

Edward Van Keer gave a presentation about the state of affairs with regard to the layout of the Flemish sediment management concept (see presentation in [annex F](#)).

- As a first step, Flanders is developing an online database with all relevant sediment related data. This takes some time, but will be very usefull in the long run.

Subsequently, Len Racioppi outlined the American experience, as well as the lessons learned from the layout and the (non) use of his own guideline drawn up in 2005 (see presentation in [annex G](#)).

- One very important lesson was that almost nobody used the guidelines, because it was a very long document in which it is hard to find what one needs for day to day actions.

Mónica Estupiñán gave a presentation about “MERcuryClean-Up system based on bioremediation by marine bacteria” (see presentation in [annex H](#)).

Edward Van Keer gave a brief explanation of the (dredging) game “RED de bagger” that Rijkswaterstaat developed in the '00s (no one from RWS could be present) and about the Flemish

serious game “Hoogwater Zonder Kater”, as inspiration for the brainstorming session on its own SedNet game.

3. **Making a Guidance Document on Sediment Management Concepts: structure, who coordinates what,...?**

The main lines were set out through a brainstorm to draw up a personal guidance document that could supplement that of ECOSTAT. See [annex I](#) at the bottom of this report.

4. **Brainstorm about elements for a SedNet Sediment Game (and/or sediment movies)**

The first ideas were also brainstormed to develop a "serious game" around sediment management (See presentation in [annex J](#)).

Not mentioned during the workshop, but afterwards during the SedNet Steering Group meeting:

- A first pilot version will be developed and tested in 2020. The aim is to be able to play the game with a number of participants at the SedNet conference in 2021. It is hoped that afterwards a truly professional version will be developed, preferably an online version in various languages, in order to introduce so many students in secondary and university to the principles of good sediment management.
- Maybe we could apply for funding from EIT Raw Materials. A proposal should be submitted by January 2020.

5. **Follow up actions:**

N°	who	when	what
1	Edward Van Keer	ASAP	prepare and send the draft report of the workshop together with the presentations and initial input for the sediment game
2	Edward Van Keer	Dec/19	draft proposal for funding of the sediment game
3	Vera Breitung	Jan/20	write out an action plan to develop the guidance document on sediment management (complementary to the ECOSTAT document being developed in 2020-2021)
4	Kevin Taylor	jan/20	type out slide 2-3-4 of the Sediment Game
5	Emanuel Branche	jan/20	type out case dams of the Sediment Game
6	David O'Connell and Len Racioppi	jan/20	type out case Industry of the Sediment Game
7	Edward Van Keer	jan/20	type out case Navigation and Floods of the Sediment Game
8	Nieves Garcia de Blas	jan/20	type out case extraction of the Sediment Game
9	Mónica Estupiñán	jan/20	type out case Sea and Solution of the sediment Game
10	Kevin Taylor	jan/20	type out case Urbanization of the Sediment Game
11	David O'Connell	jan/20	ask if the online game can be developed by his university
12	Mónica Estupiñán	jan/20	type out different roles for players of the Sediment Game
13	Mónica Estupiñán	jan/20	type out/draw elements of the play screen/board game of the Sediment Game
14	Kevin Taylor	jan/20	type out disaster "Flood of old mining material "of the Sediment Game
15	Edward Van Keer	jan/20	type out disaster "Flood because not dredging enough" of the Sediment Game
16	Nieves Garcia de Blas	jan/20	type out disaster "Contaminated material in wrong place & cleaning pollution downstream" of the Sediment Game

Annex I

Guidance document for sediment management (notes of brainstorm session)

- **Setting up a check-list:** what is already available, what gaps are to fill in regarding to different levels and relevant disciplines (hydromorphology, hydrology, sediment quantity, sediment quality (e.g. contamination, nutrients...))
- **Setting up a flow-chart:** starting with history, inputs, boundary conditions, data needs, evaluation of the data, measures and scenarios (starting simple, going deeper into details)
- **Development of a modular system (text version)**
 - Description of the current? situation (historical, data, sources, land use, boundary situation...)
 - What data are available, which data have to be gained (due to the goal to be achieved)
 - Proposal for measures or scenarios which are relevant for different stakeholders (navigation, flood protection, contamination, different users...)

The draft versions of these documents have to be in line with the work of the ECOSTAT Guidance document. They should support and not duplicate the work of ECOSTAT.

Annex K:

article in SedNet E-Newsletter December 2019:

Start of SedNet Working Group “Education-Science-Policy Interfacing & Sediment Management Concepts” (WG ESPI-SMC)

Since a long time SedNet wishes to compile all relevant experience in sediment management in a guidance document. Also SedNet would like to communicate with and educate students and other interested people about sediment management. In this way our work will be better understood and appreciated.



To achieve this SedNet organized the first workshop/meeting of the SedNet Working Group “Education-Science-Policy Interfacing & Sediment Management Concepts” (WG ESPI-SMC) on Wednesday 20th and Thursday 21st of November 2019 in Madrid. During the workshop experiences of setting up sediment management concepts of the Rhine, Elbe and Scheldt were exchanged. Also the lessons learned from compiling a sediment guidance document in the USA in 2005 were presented. A rough plan of action to write a SedNet guidance document about how to set up sediment management concepts was made. This guidance document will be developed by the WG ESPI-SMC in 2020-2021 and will be supplementary to the guidance document that the European Commission (ECOSTAT) is developing in the same period and which targets administrations who are writing the River Basin Management Plans and/or Flood Risk Management Plans every 6 years.

Also preliminary ideas were gathered on the creation of a “Sediment (serious) game”. The target audience are students of secondary schools and of higher education, as well as politicians and policy advisors. A draft of this game will be developed and tested in 2020 by the WG ESPI-SMC. We hope to “play” the game on the next SedNet conference in 2021. If successful, it would be nice to create after that a professional online version of the game in different languages to teach secondary school students and university students the principals of good sediment management. Next to that the WG ESPI-SMC hopes to create an educational learning package. This package could ideally be used by school teachers before doing the Sediment Management Game with their students. In addition to this, the WG ESPI-SMC wants to create communication tools like movies about good sediment management practices.

Want to follow the work of the WG ESPI-SMC? Want to help by mail or at one of the next workshops? Please, let us know. Contact: SedNet secretary [Marjan Euser!](#)