



## 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 Inst. for Env. Protection and Research	Italy
Antonella	Ausili	ISPRA - National Institute for Env. Protection and Research	Italy
Emmanuel	Branche	EDF-CIH	France
Marta	Castellote	Inst. of Construction Science E. Torroja (IETcc-CSIC)	Spain
David	O'Connell	Trinity College Dublin	Ireland
Nieves	García de Blas	Inst. of Construction Science E. Torroja (IETcc-CSIC)	Spain
Carmen	Casado	Ecotox Centre Eawag-EPFL	Switzerland
Len	Racioppi	ExxonMobil	USA
Mónica	Estupiñán	AZTI Foundation	Spain
Edward	Van Keer	Flemish Adm. – Dept. of Mobility & Infrastructure	Belgium

*Absent:*

Marco	Wenseveen	Port Authority of Rotterdam	NL
Eric	De Deckere	Port Authority of Antwerp	Belgium
Keith	Torrance	University of Strathclyde	UK
Ahmad	Seiar	Yokohama National University	Japan
Erik	Mosselman	Deltares	NL
Ilka	Carls	Department of Environment and Energy	Germany
Jos	Brils	Deltares	NL

*Date:*

16 December 2019

*Attachments:*

You can find the annexes to the report until 17 January 2020 on <https://we.tl/t-iyDQ3GyYYI>.  
After this date you can request a copy from the SedNet Secretariat.

[www.SedNet.org](http://www.SedNet.org)  
European Sediment  
Network

SedNet Secretariat:  
Marjan Euser  
Deltares  
PO Box 85467  
NL-3508 AL Utrecht  
[Marjan.euser@deltares.nl](mailto:Marjan.euser@deltares.nl)

Naam	Gewijzigd op	Type	Grootte
 Annex A - Invitation workshop SedNet WG SPEI Madrid	12/11/2019 13:21	Adobe Acrobat D...	152 kB
 Annex B - Draft program of the Workshop SedNet WG SPEI v3	21/11/2019 18:38	Microsoft Word-d...	36 kB
 Annex C - SedNet - Policy Brief	16/06/2017 16:40	Microsoft PowerP...	6 537 kB
 Annex D - ICPR-sedimentmanagementplan	26/11/2019 15:01	Adobe Acrobat D...	1 730 kB
 Annex E - ICPR-sedimentmanagementplan	26/11/2019 15:01	Adobe Acrobat D...	3 296 kB
 Annex F - Flemish Sediment Management Concept 2022-2027	20/11/2019 14:45	Microsoft PowerP...	1 602 kB
 Annex G - SEDNET mtg discussion	19/12/2019 16:08	Microsoft PowerP...	4 432 kB
 Annex H - 2019-11-19_MERCLUB-presentation_ME_Final	5/12/2019 10:08	Adobe Acrobat D...	1 111 kB
 Annex J - 1 The Sediment Game	21/11/2019 12:11	Microsoft PowerP...	47 kB
 Annex J - 2 SedNet input Tino for Guidance document	26/11/2019 15:14	PNG-bestand	392 kB
 Annex J - 3a 20191122-SEDNET_WG_SPEI-Game-Dams&Sediments-EBr...	26/11/2019 15:20	Microsoft Word-d...	59 kB
 Annex J - 3b 20191122-SEDNET_WG_SPEI-Game-Dams&Sediments-EBr...	26/11/2019 15:20	Adobe Acrobat D...	203 kB

## 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 third version of the agenda is 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” (see presentation in [annex C](#)).

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

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](#)).

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](#)).

Mónica Estupiñán gave a presentation about “MERCURY Clean-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 about 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 educational institutes 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 initial situation (historical, data, sources, land use, boundary situation...)
  - Which 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 with the ECOSTAT Guidance document. They should support not double 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 of making a sediment guidance document made in the USA in 2005 were presented. A rough plan of action to write out 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.

Also first ideas were gathered to create a “Sediment (serious) game”. 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. But the WG ESPI-SMC also 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!