



BOOK OF ABSTRACT

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I. SESSION DESCRIPTION

ID: S6

ES research applications in corporate action: increasing impact, unlocking opportunities and driving innovation via the ESP Business Track

- S6a ES in Finance (10:30–12:00)
- S6b ES in Business (13:30–15:00)
- S6c Designing the ESP roadmap for business engagement (16:30–18:00)

	Title	Name	Organisation	E-mail
Host:		Matt Smith	JNCC	Matt.Smith@jncc.gov.uk
		Inge Liekens	VITO	inge.liekens@vito.be
		Caroline van Leenders	RVO	Caroline.vanleenders@rvo.nl
		Martine van Weelden	FSD	martine.vanweelden@fsd.nl

Abstract:

Building on the success of the success of the ESP Business Track Sessions held at the MENA, EU and LAC regional Conferences, these sessions will explore sector specific cases where businesses are adopting the ecosystem services concept in their operations.

As demand for resources grows, and our natural systems continue to be degraded, businesses globally are becoming increasingly aware of the value that natural capital and ecosystem services provides to their bottom line. Environmental impacts and dependencies are presenting ever increasing risks (and opportunities) to the private sector.

For many businesses identifying the environmental consequences of their operations is challenging, often due the intangible characteristics of the goods and services ecosystems provide to the value chain. An increasing number of frontrunner businesses are using frameworks such as the Natural Capital Protocol to help business managers generate trusted, credible and actionable information that enables organisations to make more informed



decisions about how they interact with nature. Such frameworks provide a generalised approach that can be adapted for individual requirements and help businesses:

- become familiar with the concept of natural capital and ecosystem services and identify how they relate to business operations;
- assess ecosystem services dependencies and impacts within company's value creation boundaries.
- consider value perspectives and other technical issues (i.e. baselines, scenarios, spatial boundaries, and time horizons);
- prioritise ecosystem services within the area of influence (i.e. what is relevant to the business and can be managed);
- gather only the relevant ecosystem services data and knowledge;
- map activities against impact drivers and/or dependencies and define how to monitor these factors.
- assess future scenarios of change in delivery of ecosystem services (i.e. water availability); and
- manage and improve natural capital to ensure long-term service delivery.

Businesses drive the global economy under which most of us live, supporting the prosperity and well-being of the global population. They are run by, and dependent upon, global citizens; who are a critical component in driving the value creation systems through which they operate. To improve the long-term sustainability of our global economic models, it is imperative that all elements of society collaborate to address the business-critical questions and challenges (such as those outlined here).

At previous ESP Conferences, the science community recognised that better engagement with the private sector could help advance the application of existing research and generate innovative ideas through cross-sectoral dialogue. This session aims to pave the way for future science-business collaborations.

Goals and objectives of the session:

The overarching goal of this business track is to stimulate the application of the ecosystem services concept in business activity by encouraging dialogue between business representatives and researchers. This session, will further develop the ESP conference business tracks that were initiated in 2018 by serving as a vehicle for practitioners to meet, showcase and build on previous experiences where ecosystem services are used in business decision making.



The objective of this session(s) is:

1. Showcase business cases which relate to natural capital and ecosystem services, and understand encountered hurdles within these cases in implementing ecosystem services concept (to be presented by business representatives);
2. showcase of projects of how some researchers have been partnering with the private sector;
3. provide solutions which solve the challenges businesses addressed within their presentation based on natural capital and ecosystem services research;
4. come up with ideas how to scale up science–business collaboration by identifying concrete projects, unlock opportunities and drive innovation; and
5. discuss how the ESP community would like to shape the business track and future role of Sectoral Working Group 6: Ecosystem Services in Business for the benefit of researchers and the private sector users of knowledge.

Planned output / Deliverables:

- Business track report: This will capture the content of the business track sessions. The content will help ESP reflect on how the Partnership can increase business engagement moving forward.
- ESP business / research matchmaking service: Business track sessions will begin to scope the potential for a market place facility where businesses can bring challenges to the academic community to identify where mutually beneficial collaboration can be strengthened and uptake of results can be made easier for businesses.
- Connecting research community with business user requirements: Explore ways in which business relevant research can be showcased to potential users (i.e. tools for the NCP toolkit <http://naturalcapitalcoalition.org/protocol/protocol-toolkit/>).
- Collate business user requirements: Depending on the level of audience participation, there is scope to capture outputs to create a practice note for researchers on how to engage private sector interest in ecosystem service research.
- Work towards joint project: Prior to and following the conference, identify key opportunities for collaborative science–business community projects. Future opportunities and ideas can be discussed during the plenary session.

Related to ESP Working Group/National Network:

[Sectoral working group: SWG 6 – ES in Business](#)



II. SESSION PROGRAM

Date of session: Thursday, 24 October 2019

Time of session: S6a ES in Finance (10:30–12:00), S6b ES in Business (13:30–15:00) S6c
 Designing the ESP roadmap for business engagement (16:30–18:00)

Timetable speakers

S6a ES in Finance

Time	First name	Surname	Organization	Title of presentation
10:30–10:45	Caroline	Van Leenders	RVO	Introduction to session
10:45–11:00	Katie	Leach	UNEP	ENCORE tool
11:00–11:15	Roel	Nozeman	ASN Bank	ASN biodiversity strategy: a bank that wants to be biodiversity positive by 2020
11:15–11:30	Danijela	Piljic	DNB (DeNederlandscheBank)	Biodiversity loss: the next challenge for the financial sector?
11:30–11:45	Caroline	Van Leenders	RVO/LNV	How can science help to measure the risk of biodiversity loss for financial stability?
11:45–12:00	Caroline	Van Leenders	RVO/LNV	How to build a financial business case for biodiversity?

S6b ES in Business

Time	First name	Surname	Organization	Title of presentation
13:30– 13:45	Inge	Liekens	VITO	Introduction to session
13:45– 14:00	Johannes	Knubben	HIPP	HIPP's biodiversity strategy

Time	First name	Surname	Organization	Title of presentation
14:00– 14:15	Inez/Cathy	Gorez	Sibelco Europe	Ecosystem services and the exploitation of quarries
14:15– 14:30	Carolyn	Jewell	Heidelberg Cement	Heidelberg Cement's biodiversity strategy
14:30– 14:45	Pilar/Jesús	Gegundez/Carrasco	LafargeHolcim/Ecoacsa	Ecosystems services assessment tool for LafargeHolcim
14:45– 15:00				Discussion

S6c Designing the ESP Roadmap for Business Engagement

Time	First name	Surname	Organization	Title of presentation
16:30– 16:40	Martine	Van Weelden	ESP	How the ESP is advancing Ecosystem Services in Business
16:40– 16:50	Matt	Smith	JNCC	Ecosystem Evidence and Cross-Sectoral Collaboration
16:50– 17:00	Tânia	Pereira	CIMAR	EKLIPSE networking activities
17:00– 17:10	Mark	Van Oorschot	PBL	Integrating biodiversity and natural capital in business models
17:10– 17:20	Alison	Kettler	FSC	A true price for forests: investing in ecosystem services
17:20– 17:45	Matt	Smith	JNCC	Round table discussion
17:45– 18:00	Martine/Matt	Van Weelden/Smith	ESP/JNCC	Wrap up and final comments



III. ABSTRACTS

The abstracts appear in alphabetic order based on the last name of the first author. The first author is the presenting author unless indicated otherwise.

1. Type of submission: **Abstract**

S. Sectoral Working Group sessions: S6 Ecosystem services research applications in corporate action increasing impact, unlocking opportunities and driving innovation via the ESP Business Track

Ecosystem services and the exploitation of quarries

First author: Inez/Cathy Gorez

Affiliation: Sibelco Europe

Extraction of minerals has an impact on natural ecosystems, often forests need to be cut and traditional land uses disappear when a quarry is made. It is important in our business to embed life cycle thinking and leave a positive legacy. Together with VITO, a calculator tool was developed to predict and evaluate different rehabilitation scenarios.“

2. Type of submission: **Abstract**

S. Sectoral Working Group sessions: S6 Ecosystem services research applications in corporate action increasing impact, unlocking opportunities and driving innovation via the ESP Business Track

Heidelberg Cement's biodiversity strategy

First author: Carolyn Jewell

Affiliation: Heidelberg Cement

Heidelberg Cement Presentation on Heidelberg Cement's biodiversity strategy, with a focus on how they are using an ecosystem service focus in their reforestation schemes and on a Global project across HeidelbergCement on pollinators.



3. *Type of submission: **Abstract***

S. Sectoral Working Group sessions: S6 Ecosystem services research applications in corporate action increasing impact, unlocking opportunities and driving innovation via the ESP Business Track

Heidelberg Cement's biodiversity strategy

First author: Pilar/Jesús, Gegundez/Carrasco

Affiliation: LafargeHolcim/Ecoacsa

Biodiversity loss is a major global challenge. LafargeHolcim aims to continuously improve its land stewardship performance and demonstrate that proper management of quarries can reduce, reverse and even generate positive impacts on natural capital, as well as on social capital. LafargeHolcim Spain, in collaboration with ECOACSA, is piloting an ecosystem services assessment tool to systematically identify, understand, and assess impacts of its operation on biodiversity and ecosystems services. The tool will allow the company to improve its decision-making, strategic planning and operational processes throughout its operation"

4. *Type of submission: **Abstract***

S. Sectoral Working Group sessions: S6 Ecosystem services research applications in corporate action increasing impact, unlocking opportunities and driving innovation via the ESP Business Track

Biodiversity loss: the next challenge for the financial sector?

First author: Danijela Piljic

Affiliation: DNB (DeNederlandscheBank)

The business case for biodiversity has yet to be widely recognized and addressed. In our earlier publication Values at Risk? we have made a first attempt to show that biodiversity bear characteristics of becoming the next challenge for the financial sector. Values at risk? describes risk channels through which biodiversity loss may impact the economic activity. With our current follow-up study we aim to determine the exposure of the financial sector to the loss of biodiversity. We are focusing on physical risks for the financial sector arising from, for example, soil degradation or decline in pollinators. In addition, transitional risks due to policy change and reputational risks are also part of our study. My presentation will contain a number of preliminary research results.



5. Type of submission: **Abstract**

S. Sectoral Working Group sessions: S6 Ecosystem services research applications in corporate action increasing impact, unlocking opportunities and driving innovation via the ESP Business Track

Integrating biodiversity and natural capital in business models

First author: Mark van Oorschot, Rob van Tulder, Christiaan Hendriks

Affiliation: PBL – Netherlands Environmental Research Center, the Hague

Transformative change towards a biodiversity inclusive economy depends for a large part on the ability of business to adopt new ways of producing and operating. To do this, biodiversity and natural capital have to be integrated in different aspects of the business model. Each individual company differs in its motivation for sustainable entrepreneurship. Desk-research was done on publicly available information from companies in sectors such as the food and beverage-industry, building and finance.

Several indicators on integrating biodiversity in the business model were scored, such as company strategy, innovation, targets, reporting and accounting efforts, value proposition, supply-chain impacts and partnering. Based on the results, several types of companies were distinguished that characterise the status and progress with integrating biodiversity in the business model. These are inactive, reactive, active, and proactive. The types form a series of phases that tell a story of moving from traditional, closed and profit driven business models where companies mainly act on self-interest and regulation – towards more holistic strategies, where societal interests are taken into account and sustainability is a core element of the business model.

Governments have to create the right conditions for companies to take on a more active role. Such an enabling environment have to contain the following components: clear positioning on targets, the right infrastructure, rewards for frontrunners, dynamic regulation, financial instruments for behavioural change, and monitoring and feed-back.