

**Ecosystem Topic a. Session 2
Draft Session Proposal**

8 March 2018

Tuesday 20th March, 9h-10h30

Room 29 (former ST9 -M Cons2)

Media-friendly title (suggested by the co-organizers)	Water basin revitalization for supporting water quantity and quality and human well-being
Working title	Environmental restoration for improving lives and the environment
Key question	In a context where watersheds are increasingly being strained due to both natural variability and anthropogenic alterations in a basin, how do policy makers approach watershed revitalization to achieve multiple objectives? A key cross cutting question is <u>what is being done in this topic to better link water science and technology to decision/policy making?</u>
Media-friendly session summary (3-5 sentences)	Considering regional development and water security, restoring ecosystems for water services and biodiversity can be articulated in a series of revitalization actions in a basin scale perspective, such as soil conservation measures, prevention of sediment flow to the rivers, regeneration of the natural vegetation, sustainable ecological economics activities for the location population, ichthyofauna preservation and implantation of technics for recovering degraded areas. The use of new technologies, green and blue initiatives, sharing of information and fostering of funding for these activities can potentiate programs with these targets. The results converge to water quantity and quality, preserved ecosystems and human well-being.
Session description (150 words)	This session will bring together experts in the area of ecosystem restoration and nature-based design. The objective of the session is to explore design approaches to improve water quality, water security (quantity), and human development in both degraded ecosystems and in future water infrastructure development projects. The focus of the session will be at the regional or basin scale to address these objectives. A key theme of this session will be how to incorporate nature-based design in both restoration and development contexts. Best management practices and the implementation of these design elements into ecosystem restoration projects will be discussed.
Confirmed organization(s) convening and contact information	CODEVASF (Brazil), United States Army Corps of Engineers (United States), IOWater (International), Boticário Group Foundation (Brazil), Forest Agency of Japan, and SIAPP (France)

<p>Session outline and time allocation</p>	<p>90-minutes in total:</p> <p>(5 min.) Introduction (Inado Guerra – Director of Revitalization, CODEVASF)</p> <p>(5 min.) WWF Video</p> <p>(20 min.) Keynote Presentation</p> <p>“Engineering with Nature to Develop Water Resources and Infrastructure”</p> <ul style="list-style-type: none"> - Dr. Todd Bridges, USACE Engineer Research and Development Center <p>(40 min.) Panel Presentations (8 min each)</p> <ol style="list-style-type: none"> 1. Arcadis (Brazil) – Ms. Fernanda Gomes Corrêa Laham <i>“The São Francisco Basin Revitalization: Paths to Build the Strategic Portfolio of Projects”</i> 2. IOWater (International) – Mr. Alain Bernard <i>“IOWater Revitalization Projects in Africa”</i> 3. Boticário Group Foundation (Brazil) – Mr. Thiago Piazzetta Valente <i>“Lessons and perspectives from a pioneer Payment for Ecosystem Services (PES) in Brazil”</i> 4. Forestry Agency of Japan (Japan) – Dr. Takashi Gomi <i>“Bridging between forest and water resources management under natural and anthropogenic changes of watersheds: Challenges in Japan”</i> 5. SIAAP (France) – Ms. Vanessa Legaigreur <i>“Microbiological quality of the Seine River in the greater Paris Area”</i> <p>(15 min.) Moderated Panel Discussion with Questions and Answers led by CODEVASF.</p> <p>(5 min.) Conclusion (Inaldo Guerra – CODEVASF)</p>
<p>Contributions received that will be included in the session (with a word or two about how they are included)</p>	<p>Listed in Session Outline. To be refined in future proposal.</p>
<p>Missing stakeholders</p>	<p>Academia is currently not represented.</p>
<p>Expected outcomes, impacts and follow-up linkages with events and initiatives after the Forum</p>	<p>A framework for approaching nature-based design restoration will be preliminarily developed. The discussion will then be linked to the regional process for River Basin Recovery Interregional Session IR-Eco-59.</p>