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### Objectives of the *Ad hoc* Action


- To support collaboration, contribute with the expertise to the project, exchange knowledge and assist GenRes Bridge project to reach project objectives.
- Objectives of the project:
  - To strengthen the collaboration, conservation and sustainable use of genetic resources - contribute to the long-term food security.
  - Share perspectives, exchange good practices, harmonise standards and collaborate on training.
  - Accelerate collaborative efforts and develop capacities across the three domains.
  - Develop integrated Pan-European strategy for genetic resources in Europe.


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Ad hoc action members

Ad hoc action members	
ERFP Secretariat	Coralie Danchin-Burge
ERFP Secretariat	Eleonore Charvolin
Germany	Sebastian Winkel
Italy	Enrico Sturaro
Slovenia	Danijela Bojkovski (Chair)
The Netherlands	Sipke - Joost Hiemstra
SC members	
Serbia	Srdjan Stojanovic
Slovakia	Jan Tomka
Sweden	Eva-Marie Stalhammar
Spain	Montse Castellanos Moncho
	+ elected at this meeting




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Activities in the past year and output/results

- Mainly connected to the communication and support between the preparation phase of the project and ERFP network.
- Collaboration at the first kick-off meeting in Rome, January 2019. Reminders and clarifications of the main milestones and deliverables / presentations of task leaders; 30 participants.
- Identification of participants for the 2 workshops in Slovenia and Finland.
- Project website: <http://www.genresbridge.eu/>

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## Important workshops

1. Consolidate scientific messages for genetic resources (GenRes) practitioners, policy makers and the scientific community based on the shared scientific expertise; 3-5 July 2019, Pokljuka, Slovenia. ERFP network presented AnGR related issues.
1. Sharing strategies and perspectives; workshop will be held in November, Finland

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## Report from the Workshop, Slovenia


Project partners:

- Enrico Sturaro (WG Doc Info – presentation climate change and AnGR)
- Danijela Bojkovski (UL)
- Henri Woelders (Wageningen)

Additional experts proposed by WG:

- Jesus Fernandez (WG *In situ*)
- NordGen – Mervi Honkatukia (observer, WG *In situ*)
- Gustavo Gandini (WG *Ex situ*)


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## Workshop objectives


- Share knowledge and expertise across the 3 domains
- Elaborate common key messages for policy makers + GR practitioners + scientific community
- Exchange and support to start shaping messages to the 3 target groups for later use and WP-dissemination.
- Messages will be shared with a wider group of contributors through email.

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## Workshop 1 : “How life sciences and human sciences help GenRes managers better account for multiple uncertainties in GenRes strategies within the context of global change?”


- Introductory talks:
  - Approaches to risk assessment and management and uncertainty management in relation to climate change in the agricultural sector: => to be confirmed
  - 3 presentations 30’ each presenting the context, state of knowledge, pending questions for each domain + general talk:
    - General presenyation: Risk uncertainty assessment and managment (François Lefèvre, INRA)
    - Animal: Enrico Sturaro, UNIPD
    - Crops: Theo von Hintum, CGN
    - Forest: Marjana Westergen, GIS
- Topics addressed by each domain-specific talk: how does the context of global change and uncertainty modify:
  - the choice of GR to be conserved (e.g. new criteria, new origins)
  - the conservation technics and tools (e.g. related to Quality issues)
  - the conservation strategies (e.g. more adaptive and dynamic strategies)
  - the GR user perspectives
  - the national and international policy perspectives
- Discussions


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## AnGR and multiple uncertainties within the context of global change (presented by Enrico Sturaro)

- Introduction of AnGR issues:
  - Monitoring of AnGR status - DAD-is/EFABIS (changes in risk status 1990-2018).
  - Presentation of GPA and Strategic Priorities.
  - Immediate actions for improving AnGR characterization, use, conservation.
  - SDG = AnGR and Ecosystem services in the context of achieving SDG;
- Discussion points:
  - What to conserve?
  - Conservation technics, tools and strategies.
  - How to integrate AnGR conservation strategies into general biodiversity conservation strategies?
  - Integration between different disciplines.

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## Workshop 2: “Enhance dynamic *in situ* GenRes strategies: how recent scientific evidence can support the development and improvement of dynamic *in situ* GenRes conservation strategies and implementation?”

**Introductory talks:** context, state of knowledge and pending questions for each domain:

- Animal: Jesus Fernandez, ERFP WG *In situ*
- Crops: Nigel Maxted, UOB
- Forest: François Lefèvre, INRA


**Topics to be addressed:**

- what is effectively done in terms of *in situ* strategies in Europe (definition, goals, actors, methodologies, European coordination or not, etc.)
- what could be done but is not (possible barriers)
- what are the current questions for research to support *in situ* strategies
- what are the effective or possible connections between *in situ* and *ex situ* strategies
- how does *in situ* strategy connect or not with European and global biodiversity conservation programmes

**The discussions:**

- What is common between the acceptations of “*in situ*” in the 3 domains (in terms of goals, actors involved, knowledge on the genetic impacts of management practices, etc.)
- How could/should *in situ* and *ex situ* strategies complement one each other
- Integration of GR conservation with global biodiversity conservation programmes/initiatives (e.g. SDG and CBD)


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## Enhance dynamic *in situ* GenRes strategies for AnGR (by Jesus Fernandez)

- Introduction of AnGR domain
  - Practitioners, researchers, policy makers = speak diff. languages, have diff. interests, or even facilitate/add constraints.
  - What is dynamic conservation (conservation by utilisation; continuous adaptation)
  - FAO guidelines *In vivo* conservation AnGR
  - Scientific evidence VS. Scientific consensus (use of genomic tools etc.)
- Discussion points:
  - What to conserve?
  - Conservation techniques, tools and strategies.
  - How to integrate AnGR conservation strategies into general biodiversity conservation strategies?
  - Integration between different disciplines.


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## Workshop Outcomes = Scientific messages (1)

- Complex process to agree about integrated messages, since some are sector specific (but majority = cross-cutting messages).
- Top 10 :
  - Climate change poses an existential threat to genetic diversity.
  - Social + economic studies are required to evaluate contribution of GR to mitigating the impacts of unexpected events.
  - Improved availability of more standardized scientific information on genetic and phenotypic diversity is required.
  - GR related policies should be formulated upon relevant scientific findings.
  - Awareness regarding the importance of genetic diversity for the survival of the earth in times of climate crisis needs to be raised.


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## Workshop Outcomes = Scientific messages (2)

- Next from the top 10 :
  - Cooperation between formal GR conservation programme and community based conservation initiatives should improve
  - Studies are required to detect early signs of potential future needs and threats for GR.
  - The actual impact of climate change on genetic diversity and on associated organisms has to be periodically monitored.
  - Communication between practitioners, policy makers and scientists should improve.
  - The traits related to the adaptation of genetic resources to climate change need to be given more attention in research.

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## Workshop Outcomes - next step:

- Fine tuning by partners
- Grouping/joining the statements where needed
- Supporting evidence – domain specific have to be developed supported by publications/reports
- First round will be done by participants of the workshop + ERFP Ad hoc action group
- Final revision in September 15th

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