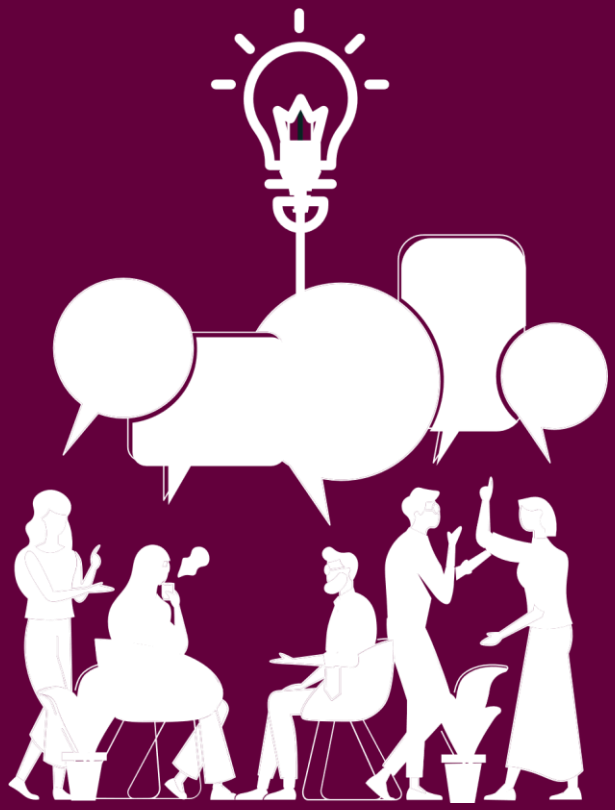
BrainStormNano



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BrainStormNano: Context

Nanoscience is inherently an **interdisciplinary field**

But!

Interdisciplinary & **disruptive** projects are struggling both to emerge and to develop

- ➔ Lack of a **favorable ecosystem**
- ➔ Lack of **suitable funding**
- ➔ Therefore, leave only little or no **room for risk-taking projects**

BrainStormNano: Goals

- Bring out **disruptive interdisciplinary projects**
- Contribute to **the birth of internationally recognized research clusters,** benefiting from the Paris Saclay assets

An **innovative prospective program** entirely based on exchanges and dialogue at all levels, between:

- ➔ Different research communities
- ➔ Brainstormers scientists and prospective moderators
- ➔ Scientific selection committee and project leaders

BrainStormNano: Partners

PSiNano NanoSaclay
Laboratoire d'Excellence en Nanosciences et Nanotechnologies

Initiator & main beneficiary of BrainStormNano

- *Gather the Paris-Saclay "nano" community*
- *Expertise on flagship projects building*

université PARIS-SACLAY
INSTITUT PASCAL

International scientific hub, exchange of knowledge & development of new ideas

- *Scientific brainstorming process*
- *Meeting facilities, logistics*

cnrs C'NANO

Interdisciplinary French network in nano

- *Knowledge of the national nanoscience community and expertise in the organization of scientific events*
- *Prospective in nano*

BrainStormNano: Methodology

Step 1
« Inter topics »

Targeting of emerging "interdisciplinary topics"
Who? PSiNano & C'Nano
Output: Prioritized scientific interdisciplinary topics

Step 2
Seminar

Brainstorming seminar, incl. national & international experts
Who? PSiNano, Institut Pascal & C'Nano
Output: Minutes, analysis of relevant actors

Step 3
« Workshops »

Workshops dedicated to projects construction
Who? PSiNano + Institut Pascal & C'Nano
Output: Interdisciplinary disruptive projects, 5 or 6 teams

Step 4
« Projects »

Project evaluation (+maturation)
Who? PSiNano and external committee
Output: Funding proposal for 1 or 2 projects

Project kickoff

4 to 5 years with **go/no-go** after the 2nd year

Ringmaster Management:
- Conflicts
- Ethical issues
- IP

BrainStormNano: Methodology

Step 1 – Targeting interdisciplinary topics

Targeted Topics should NOT be:

- In continuity
- Only disciplinary
- Too focused
- Able to be financed by classical AAP

Original
Interdisciplinary
Broad interest
High risk

An innovative approach

Bottom-up (flagship-like) mobilisation

Prospective methodology:

- Detection of possible high impact disruptive fields
- State of the art and some open questions
- Identification of the major scientific/tech challenges
- Assessment of Paris Saclay strength & weakness

BrainStormNano: Methodology

Step 2 – Seminar

Initiate together with national and international experts a **dynamic of exchanges** between experts from various disciplines

Bring together recognized players from Paris-Saclay and international experts

- <60 participants (<10 international experts)
- <5 observers and moderators
- 5-6 days

- Stimulate **interdisciplinary collaborations**
- Understand new ways of approaching research work
- Bring out embryonic ideas x **disruptive interdisciplinary projects**

BrainStormNano: Methodology

Step 3 – Workshop(s)

- Participants should mature their project after step 2
- Project-oriented workshop
- Transform the embryonic idea into a project

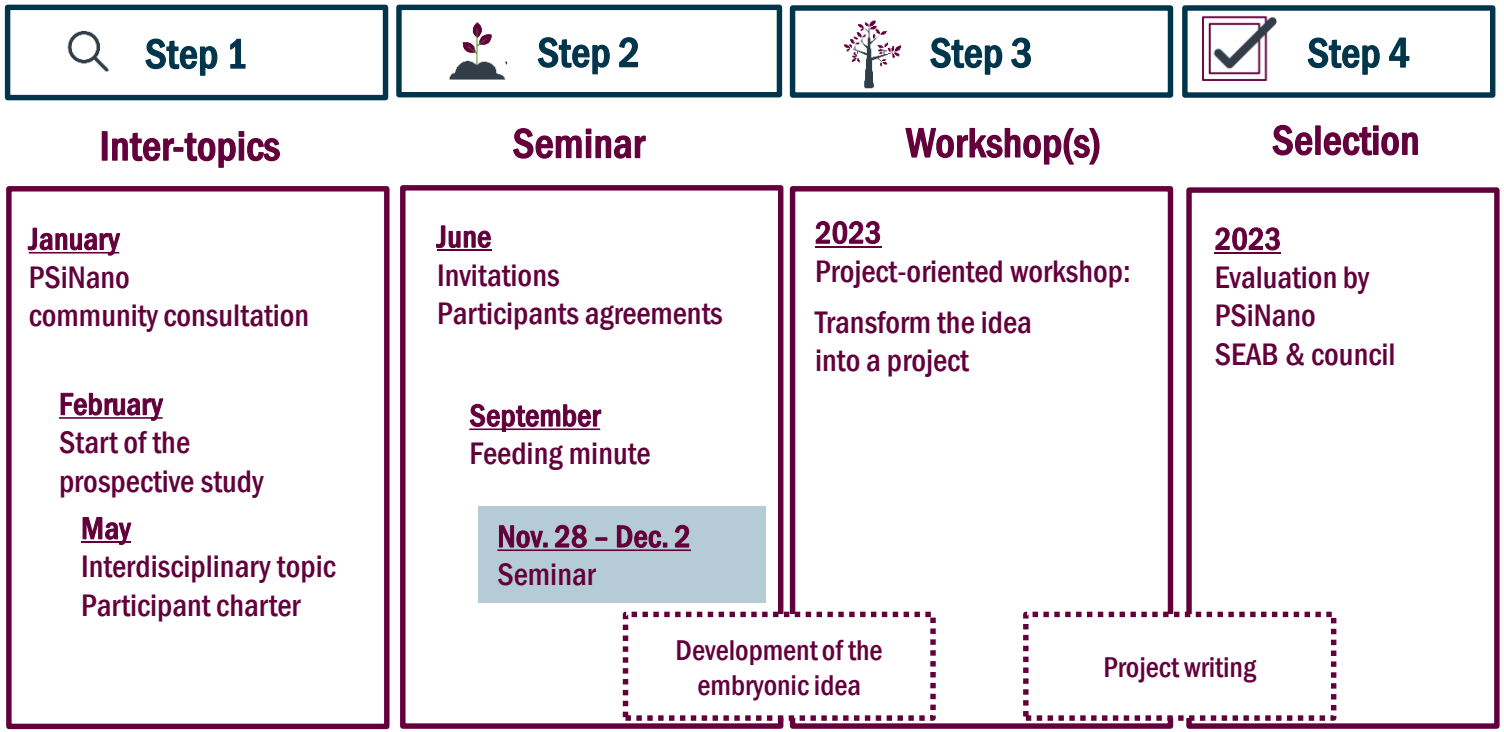
➔ Interdisciplinary disruptive projects

Step 4 - Project(s)

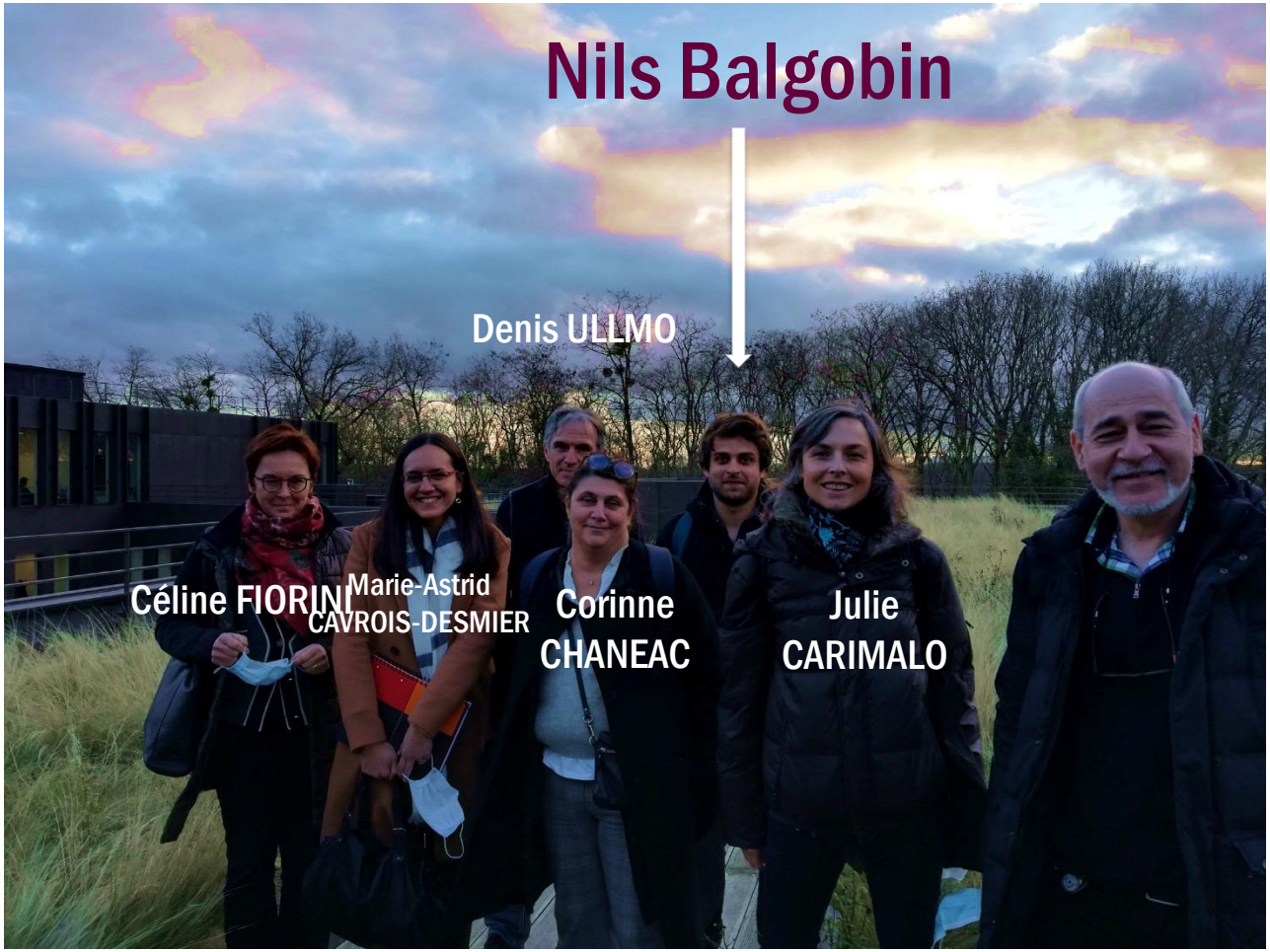
- Evaluation of the projects by the SEAB and PSiNano council
- Proposals for improvements such as the inclusion of new partners

➔ Funding proposal for 1 or 2 projects (4-5 years with a go-no-go after the 2nd year

BrainStorm Nano: Timeline



Thank you for your attention !



Thank you in advance for questions & contributions!