

We plan to rebuilding the seed sovereignty of organic smallholder cotton farmers to improve their livelihoods.

# **FiBL**



## Seeding the Green Future

Participatory breeding to secure income of organic cotton farmers and genetic diversity for climate change adaptation





#### Roadmap

Green Cotton Phase I 2013 - 2016 / 17 Seeding the Green **Future** Phase II 2018 - 2022 Seeding the Green Future Phase III 2022 - 2026

Roadmap for the upscaling of the participatory breeding project.

#### Contact

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### Objectives of Seeding the Green Future

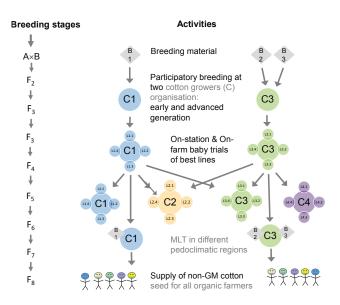
- Secure seed availability for organic cotton farmers in India.
- Develop a portfolio of new cotton cultivars including traditional Desi cotton with
  - improved agronomic performance
  - high fiber quality (fiber length of more than 28 mm)
  - adaptations for various growing conditions
  - high resilience to climate change
- Achieve high adoption rate by farmers and address anticipated changes in cultivation (mechanization)
- Improve integrity of organic cotton by capacity building and close collaboration of actors along the supply chain.



Gossypium arboretum Desi cotton diploid

Gossypium hirsutum Upland cotton tetraploid

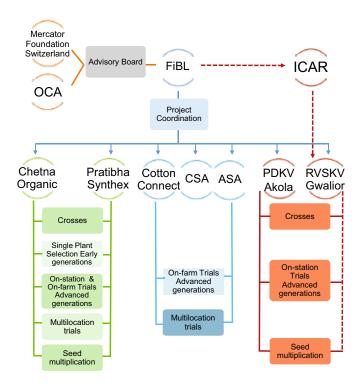
# Seeding the Green Future Project Approach



### Why Does it Matter?

- 51 % of the global organic cotton is produced in India.
- Less than 2% of Indian cotton is organic, while genetically modified Bt cotton reached 95% in less than 10 years.
- Public breeding and seed multiplication were neglected.
- Local non-GM seeds supply were eroded.
- High dependency on a global seed company holding a
  Bt licence resulting in high seed prices and concentration
  on high input agriculture (high levels of fertilizer, pesticide
  and water use).
- Limited interest of commercial seed companies in non-GM cotton due to higher production risks, risk of Bt contamination and low demand.
- Breeder's seed has already been contaminated with Bt, causing contamination throughout the value chain and withdrawal of organic certification.

#### Project Governance, Activities and Partners



The project aims to scale up participatory cotton breeding by empowering farmers through

collaboration with researchers, breeders, seed companies, advisors, and the textile industry.