



Project canvas · SunFactory Project Design Office

A design office that continuously carries out research and development of solar commons · Antenna Foundation, Geneva · Fundraising 2026 – 2028

1 PURPOSE

Increase the agency of local actors through solar energy, by designing and sharing low-tech machines as technological commons.

2 PROBLEM

- Production heat depends on fossil fuels or on centralised, expensive electricity.
- Plastic waste accumulates with no local recovery sector.
- Small producers (cocoa, coffee, cereals) depend on intermediaries for processing.
- Existing technologies are patented, expensive and hard to repair.

4 SOLUTION

- A portfolio of many open source solar technologies, 10 of them already validated.
- 3D/2D plans, BOM and « How to create & How to use » articles.
- Training, capacity building and SunFactory Labs (places for training and building solar kits).

8 KEY METRICS

- Commons published and replicas built
- People trained, active SunFactory Labs
- Kg of plastic processed
- Jobs created (3 to 5 per workshop)

5 UNIQUE VALUE PROPOSITION

Low-tech, open source and costed solar machines that anyone can build, repair and improve.

Designed once, replicated everywhere: no electricity, no licence fees, no dependency.

Two unique technologies: **solar plastic recycling** and **sun-puffed cereals**.

9 UNFAIR ADVANTAGE

- 15 years of knowledge and experience in solar thermal (since 2011)
- World first: eyewear injected in the sun (2021)
- Academic and FabLab network (IPL / ESELx, FabLab Benfica)
- Non-profit hosting by the Antenna Foundation

6 CHANNELS

- hub.antenna.ch, sunfactoryproject.com and sunfactory.world
- Open Business Foundation (openbusiness.world)
- SunFactory Labs: Geneva, Lisbon, Accra, Coimbra
- FabLab residencies, Distributed Design, ecoboost.world
- AI dissemination agents

3 SEGMENTS

Beneficiaries: rural and vulnerable communities, craftspeople, small producers, micro-entrepreneurs.

Customers: FabLabs, NGOs, schools, local authorities, institutions facing a challenge.

Funders: foundations, public programmes, patrons.

10 COST STRUCTURE

- Contributors ≈ 1.4 FTE: 2,520 h/year, plus 400 h/year of assembly
- Prototyping and measurement materials
- Residencies, mobility, documentation and open infrastructure
- Travel, monitoring and contingencies
- 434,500 CHF/year

11 SURPLUS

Reinvested in research, open documentation and opening new SunFactory Labs. No distribution: the non-profit Antenna Foundation receives the funds and pays the mandates.

7 REVENUE STREAMS

- Donations and grants for R&D, received by the Antenna Foundation
- Invoicing developments and capacity building
- Sale of portfolio kits

12 IMPACT

13 Sustainable Development Goals · local jobs and income · paid missions for people in need · plastic waste recovered · energy and food autonomy · solar knowledge open and durably accessible to all.