

Sustainability of the SOILPROM modelling platform and decision-support tool: co-creation of a business model using the PREPSOIL framework

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SOILS FOR EUROPE CONFERENCE 2026 | COIMBRA, PORTUGAL | 7-11 SEPTEMBER 2026

BACKGROUND & OBJECTIVE

SOILPROM is a Horizon Europe Mission Soil project advancing Europe's capacity to understand and reduce soil pollution by upgrading and integrating models for pollutant transport and fate across the soil-water-atmosphere continuum.

The models address metals, PFAS, nutrients, microplastics and pesticides and are validated across six European use cases.

Long-term impact depends on sustainable uptake of the modelling platform and decision-support tool (DST). This work develops a business model supporting future sustainability, governance and adoption.

CO-CREATION APPROACH

The process applies the PREPSOIL business model framework and a systematic, participative development method.

1. Draft the Business Model Canvas with modelling experts, DST developers and end-users.
2. Assess alternatives through multi-criteria evaluation.
3. Use portfolio decision analysis to identify robust combinations balancing policy alignment, resources and long-term maintainability.

PRELIMINARY INSIGHTS

Stakeholder input is gathered from R&D actors, land managers and policy communities.

Preliminary results highlight expectations for:

- transparent modelling
- clear governance
- alignment with soil-policy instruments

Multi-criteria assessment and portfolio decision analysis shift the discussion from one preferred model toward multi-actor-supported portfolios adapted to Mission Soil needs.

BUSINESS MODEL CREATION PROCESS



Figure 1. Five-step participative business-model creation process.

VALUE PROPOSITION CANVAS

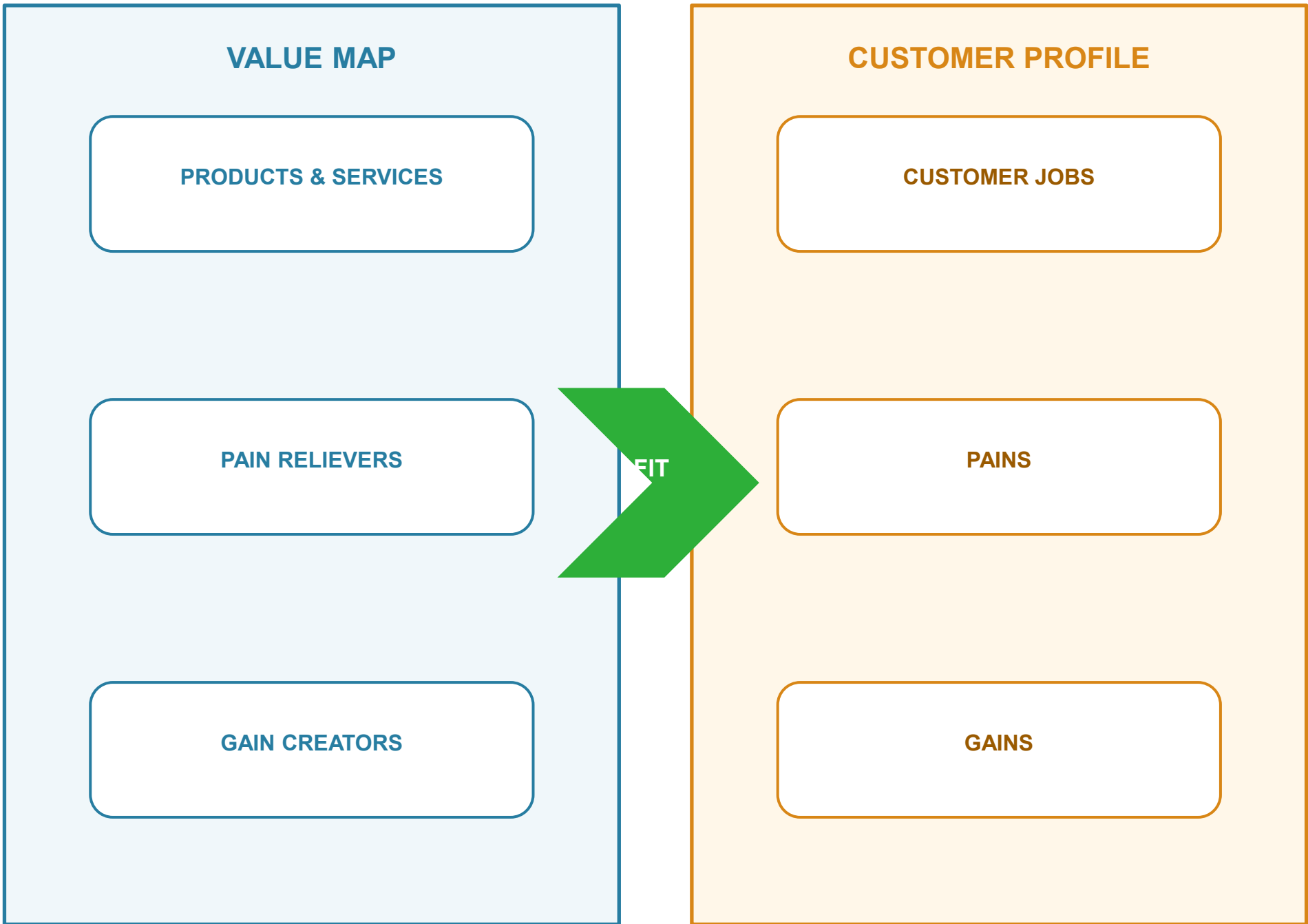


Figure 2. Value Proposition Canvas structure for co-creation.

CONCLUSION

The co-creation process links technical development with governance, stakeholder value and long-term maintenance. Robust portfolios can combine complementary hosting, stewardship and collaboration arrangements rather than relying on a single business-model option.

References: Kajanus et al. (2014); Eskelinen et al. (2017); PREPSOIL Business Model Canvas for Soil Living Labs and Lighthouses.

This project has received funding from the European Union's Horizon Europe research and innovation programme under grant agreement No. 101156589. This poster reflects only the authors' views.

PROJECT NO.
101156589



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