

# Proposal Evaluation Form

	<p><b>EUROPEAN COMMISSION</b></p> <p>Horizon 2020 - Research and Innovation Framework Programme</p>	<p><b>Evaluation Summary Report</b></p>
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**Call:** H2020-EIC-SMEInst-2018-2020-3  
**Type of action:** SME-2b  
**Proposal number:** 970346  
**Proposal acronym:** sRIM-PUR  
**Duration (months):** 24  
**Proposal title:** Automated technology for the large-scale manufacturing of sustainable Polyurethane frames for highly energy-efficient windows & doors.  
**Activity:** EIC

N.	Proposer name	Country	Total Cost	%	Grant Requested	%
1	INDRESMAT SL	ES	3,553,159.5	100.00%	2,487,211.65	100.00%
Total:			3,553,159.5		2,487,211.65	

**Abstract:**

Serial Reactive Injection Moulding for foamed polyurethane frames for highly energy efficient windows & doors, sRIM-PUR, is a unique highly productive and automated manufacturing process, 50 times faster (~10m/min) than any current RIM production technology while decreasing by more than 95% mould cost, able to compete with the high productivity of PVC and Aluminium frame, that have been dominating the more sustainable wooden segmentation. Combined with the use of biobased raw materials, coming mainly from natural oils and lignin, sRIM-PUR is a low energy consuming technology that allow KLIMA-PUR™ - a novel top class of Polyurethane framing material - to reach a low carbon footprint (164.25kgCO2/m2) similar to the one made from wood (130 kgCO2/m2), much lower than PVC (258 kgCO2/m2) and Aluminium (486 kgCO2/m2) windows.

Since 2020, INDRESMAT, an international chemical start-up, has been implementing its first Pilot plant and performing product-market fit of KLIMA-PUR™ frames for windows & doors while introducing circular economy aspects in the conservative construction sector. Through the EIC blended funding, INDRESMAT will be able to finalize sRIM-PUR development and implement a large-scale manufacturing of KLIMA-PUR™ frame, already certified through official CE marking, under an Industry 4.0 environment in a plant with Zero-Emissions and Zero-Residues performance. This will allow to successfully commercialized KLIMA-PUR™ in Europe, reaching breakeven by 2024 and then a net income of 11.4M€ by 2026, employing ~40 people prior our Serie B investment (for a value of 20M€) that will allow us to grow beyond Europe while reducing the fossil CO2 emissions in buildings through enhancing thermal insulation. As such, we estimate the installation of 1.4 million KLIMA-PUR™ windows and doors by 2030, representing an annual saving of 480Mtons of CO2 if selected instead of aluminium frames.

## Evaluation Summary Report

### Evaluation Result

**Total score: 13.50 (Threshold: 13)**

### Form information

Indicative Appraisal Scale per Sub-Criterion:

- Very Good to Excellent (4.5 - 5)
- Good to Very Good (3.5 - 4.49)
- Fair to Good (2.5 - 3.49)
- Insufficient to Fair (1.5 - 2.49)
- Insufficient (0-1.49)

### Operational Capacity

Status: **Operational Capacity: Yes**

If NO, please provide a short explanation.

*Not provided*

### Criterion 1 - Impact

Score: **4.60** (Threshold: 4/5.00 , Weight: -)

The following aspects have been taken into account:

**Convincing specification of the potential to create new markets or create market disruption together with a convincing specification of the substantial demand (including willingness to pay) for the innovation.**

**Total market size envisaged.**

Very Good to Excellent (4.5 - 5)

**Convincing description of targeted users or customers of the innovation, how their needs have been addressed, why the users or customers identified will want to use or buy the product, service or business model, including compared to what is currently available if anything at all.**

Very Good to Excellent (4.5 - 5)

**Realistic and relevant analysis of market conditions and growth-rate, competitors and competitive offerings, key stakeholders, clear identification of opportunities for market introduction, market creation or disruption (e.g. via new valuechains).**

Very Good to Excellent (4.5 – 5)

**Realistic and relevant description of how the innovation has the potential to scale-up the applicant company (or companies). This should be underpinned by a convincing business plan with a clear timeline, and complemented, where possible, by a track-record that includes financial data including financial needs to ensure the company's success.**

Good to Very Good (3.5 – 4.49)

**Alignment of proposal with overall strategy of applicant SME and commitment of the team behind them. Demonstration of need for commercial and management experience, including understanding of the financial and organisational requirements for commercial exploitation (Phase 2 only) as well as key third parties needed.**

Good to Very Good (3.5 – 4.49)

**Realistic and relevant strategic plan for commercialisation, including approximate time-to-market or deployment. Activities to be undertaken after the project.**

Very Good to Excellent (4.5 – 5)

**European/global dimension of innovation with respect to both commercialisation and assessment of competitors and competitive offerings.**

Very Good to Excellent (4.5 – 5)

**Evidence of or realistic measures to ensure 'freedom to operate' (i.e. possibility of commercial exploitation), convincing knowledge-protection strategy, including current IPR filing status, IPR ownership and licensing issues. Regulatory and/or standards requirements addressed.**

Good to Very Good (3.5 – 4.49)

**Overall assessment of the Impact criterion**

**Taken as a whole, to what extent are the above elements coherent and plausible?**

Very Good to Excellent (4.5 – 5)

### Criterion 2 - Excellence

Score: **4.50** (Threshold: 4/5.00 , Weight: -)

The following aspects have to be taken into account.

**High-risk/high-potential innovation idea that has something that nobody else has. It should be better and/or significantly different to any alternative. Game-changing ideas or breakthrough innovations are particularly sought after. Its high degree of novelty comes with a high chance of either success or failure.**

Good to Very Good (3.5 – 4.49)

**Realistic description of current stage of development (at least TRL 5/6, or something analogous for non-technological innovations), and clear outline of steps planned to take this innovation to market.**

**Note: Please see [part G of the General Annexes](#)**

Good to Very Good (3.5 – 4.49)

**Highly innovative solution that goes beyond the state of the art in comparison with existing or competing solutions, including on the basis of costs, ease of use and other relevant features as well as issues related to climate change or the environment, the gender dimension, any other benefits for society.**

Good to Very Good (3.5 – 4.49)

**Very good understanding of both risks and opportunities related to successful market introduction of the innovation from both a technical and commercial points of view. Documentation on the technological, practical and economic feasibility of the innovation.**

Good to Very Good (3.5 – 4.49)

**Objectives for the innovation proposal as well as the approach and activities to be developed are consistent with the expected impact (i.e. commercialisation or deployment resulting in company growth). Appropriate definition provided of specifications for outcome of project and criteria for success.**

Very Good to Excellent (4.5 – 5)

**Overall assessment of the Excellence criterion**

**Taken as a whole, to what extent the above elements are coherent and plausible?**

Good to Very Good (3.5 – 4.49)

### Criterion 3 - Quality and efficiency of implementation

Score: **4.40** (Threshold: 4/5.00 , Weight: -)

**Evidence that the applicant company cannot leverage sufficient investments from the market and/ or, particularly for applicant companies requesting blended finance support, evidence that the applicant company is deemed 'non- bankable' by the market, in view of the activities to be developed.**

Good to Very Good (3.5 – 4.49)

**Technical/business experience of the team, including management capacity to lead a growing team. If relevant, the proposal includes a plan to acquire missing competences, namely through partnerships and/or subcontracting\*, and explains why and how they are selected (subcontractors must be selected using 'best value-for-money' principles).**

Good to Very Good (3.5 – 4.49)

**Availability of resources required (personnel, facilities, networks, etc.) to develop project activities in the most suitable conditions.**

**Where relevant, realistic description of how key stakeholders / partners / subcontractors could be involved\* (subcontractors must be selected using 'best value-for-money' principles).**

Where relevant, the estimated budget and the procedure planned for selecting the subcontractors are appropriate\*.

**NOTE: \*Subcontracting is acceptable to the extent required for the implementation of the proposed activities. Subcontracting may be an essential part of the implementation of the project, but should not be a disproportionate part of the total estimated eligible costs. Subcontractors must be selected using 'best value-for-money' principles.**

Good to Very Good (3.5 – 4.49)

**Realistic timeframe and comprehensive description of implementation (work-packages, major deliverables and milestones, risk management) taking the company's or applicant's innovation ambitions and objectives into account.**

Good to Very Good (3.5 – 4.49)

**Overall assessment of the Quality and Efficiency of Implementation Criterion  
Taken as a whole, to what extent are the above elements coherent and plausible?**

Good to Very Good (3.5 – 4.49)

### **Subcontracting**

Subcontracting is acceptable in terms of 'best value for money except for task(s):

*N.B.: A blank section means either a positive assessment of all your subcontracting tasks or that your proposal does not foresee any subcontracting activities.*

### **Technology Readiness Level (TRL)**

Pursuant to the eligibility criteria for the EIC Accelerator Pilot, proposals with a TRL (or its equivalent for non-technological innovation) above 8 will only be funded by blended finance option. Grant component will only apply to the activities with a TRL (or its equivalent for non-technological innovation) of 5/6 to 8.

Work Packages financed by grant that includes activities above TRL8 in the proposal are:

**Work Package 1:**

**Does the Work Package contain any activity above TRL 8?**

No

**Work Package 2:**

No

**Work Package 3:**

No

**Work Package 4:**

No

**Work Package 5:**

No

### Use of human embryonic stem cells (hESC)

Does this proposal involve the use of hESC?

*No*

If yes, please state whether the use of hESC is, or is not, in your opinion, necessary to achieve the scientific objectives of the proposal and the reasons why. Alternatively, please also state if it cannot be assessed whether the use of hESC is necessary or not because of a lack of information.

*Not provided*

### Scope of the proposal

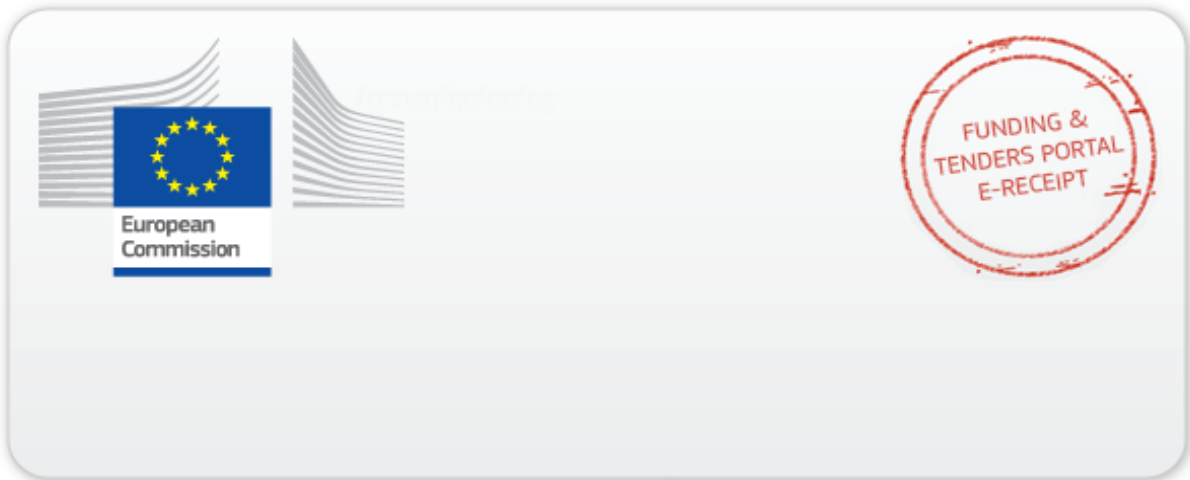
Status: **Yes**

Comments (in case the proposal is out of scope)

*Not provided*

### Overall comments

*Not provided*



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