

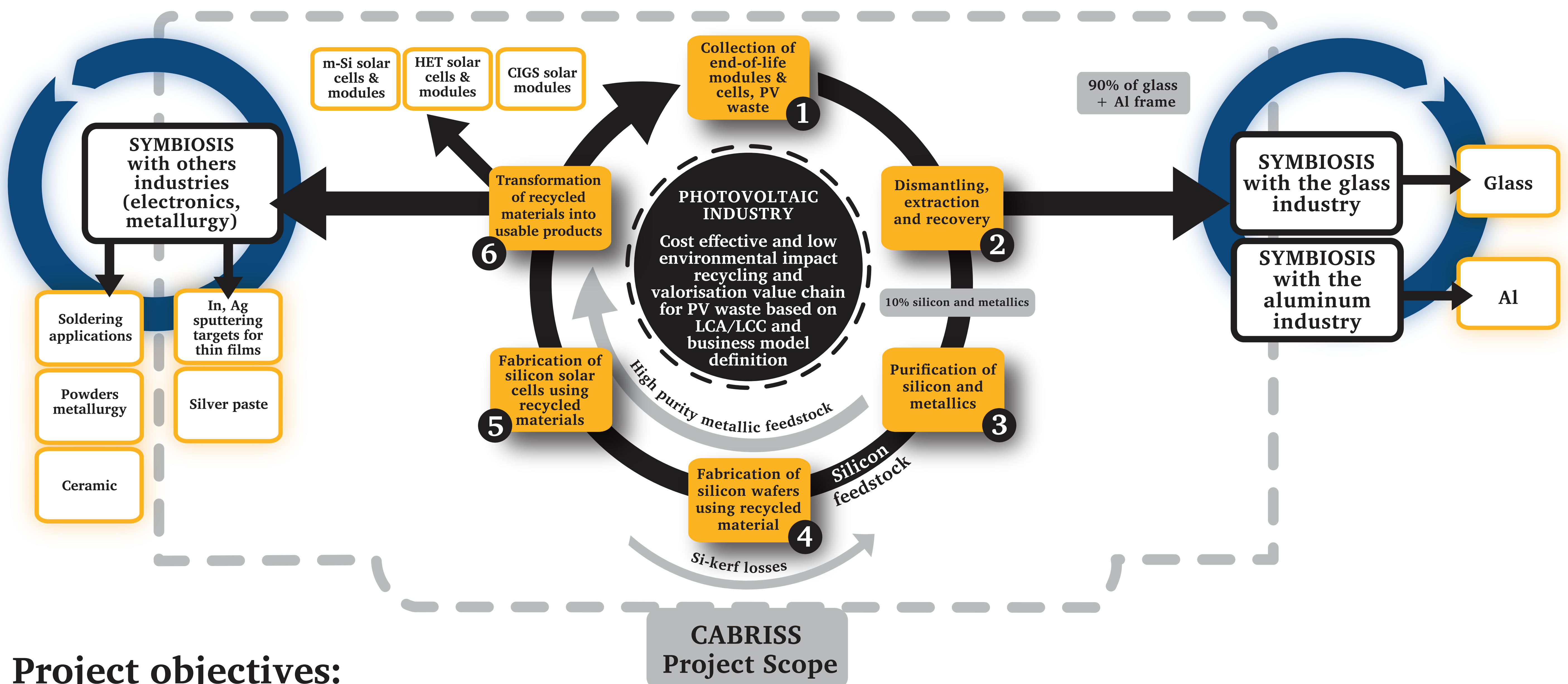


Implementation of a Circular economy Based on Recycled, reused and recovered Indium, Silicon and Silver materials for photovoltaic and other applications



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**Project objectives:**

- Developing industrial symbiosis by providing raw materials such as glass or silver pastes as feedstock for other industries (e.g. glass, electronics or metallurgy).
- Collecting up to 90% of the PV waste throughout Europe compared to the 40% rate in 2013.
- Retrieving up to 90% of the high value raw materials from the PV cells and panels: Silicon, Indium and Silver.
- Panels from the recycled raw materials achieving lower cost (25% less) and at least the same performances (i.e. cells efficiency yield) as the conventional processes thanks to the implementation of a solar cell processing roadmap, which uses Si waste for the high throughput, cost-effective manufacturing of hybrid Si based solar cell.
- Involving the EU citizens and industry into such a sustainable and financially viable new economy. Namely, EU PV manufacturing industry will be given a new momentum allowing them to reach 50% of the EU market by 2020 (vs 24% in 2013).

**List of Work Packages:**

- WP1: PV waste collection and dismantling, materials extraction
- WP2: Purification of silicon recovered in PV wastes
- WP3: Fabrication of silicon wafers using recycled materials
- WP4: Fabrication of silicon solar cells using recycled materials
- WP5: Transformation of recycled materials into usable products
- WP6: Materials characterizations and qualifications
- WP7: Life cycle assessment & life cycle cost, business models
- WP8: Dissemination, exploitation and standardization
- WP9: Project management

16 partners from 9 countries  
6 SMEs, 5 Industries and 5 RTOs

**Consortium**



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