

September 2024

Circular Business Program Semicon (CBPS)

**ACCELERATING CIRCULARITY IN THE
PRODUCTION OF SEMICON EQUIPMENT**

Executed by



Initiated by



Provincie Noord-Brabant

Introduction CBPS

- *Why:* Circularity/reuse are the biggest opportunities for sustainability in semicon.
- *First steps:* Circular Innovation Program 2022-2024, circular innovation within the ASML semicon value chain, joint effort in exploring and implementing circularity.
- *Current status:* ASML and T1's recognize possibilities and have ambitions, and face comparable barriers.
- *Starting point CBPS:* Create a semicon value chain overview of opportunities and bottlenecks, to deepen knowhow, scale and increase the pace of adoption of circularity.
- *Goal:* Develop a joint CBPS multi year program (2025-2029) based on company needs and connect to knowledge institutes and financing.
- *CBPS setup:* Initiated by the Province of North Brabant and Brainport Industries, executed by the Brabantse Ontwikkelings Maatschappij (BOM) and ImpactX.

CBPS mission

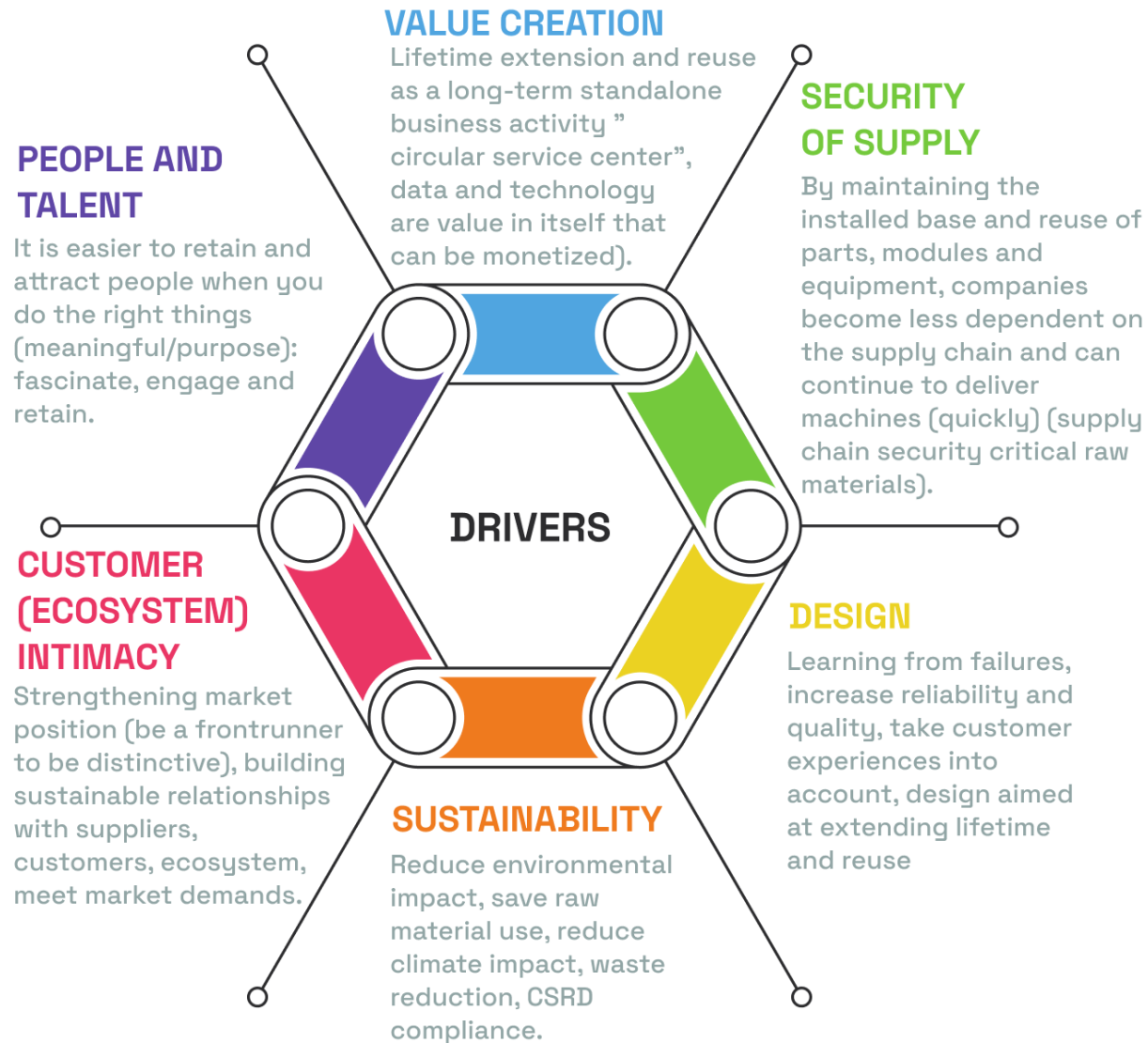
- Use fewer raw materials: narrow the loop
- A longer lifetime of parts, modules and equipment: slow the loop
- Reuse of products and product parts: close the loop

With the aim of security of supply,
competitiveness and sustainability

Interviews & Co-creation sessions

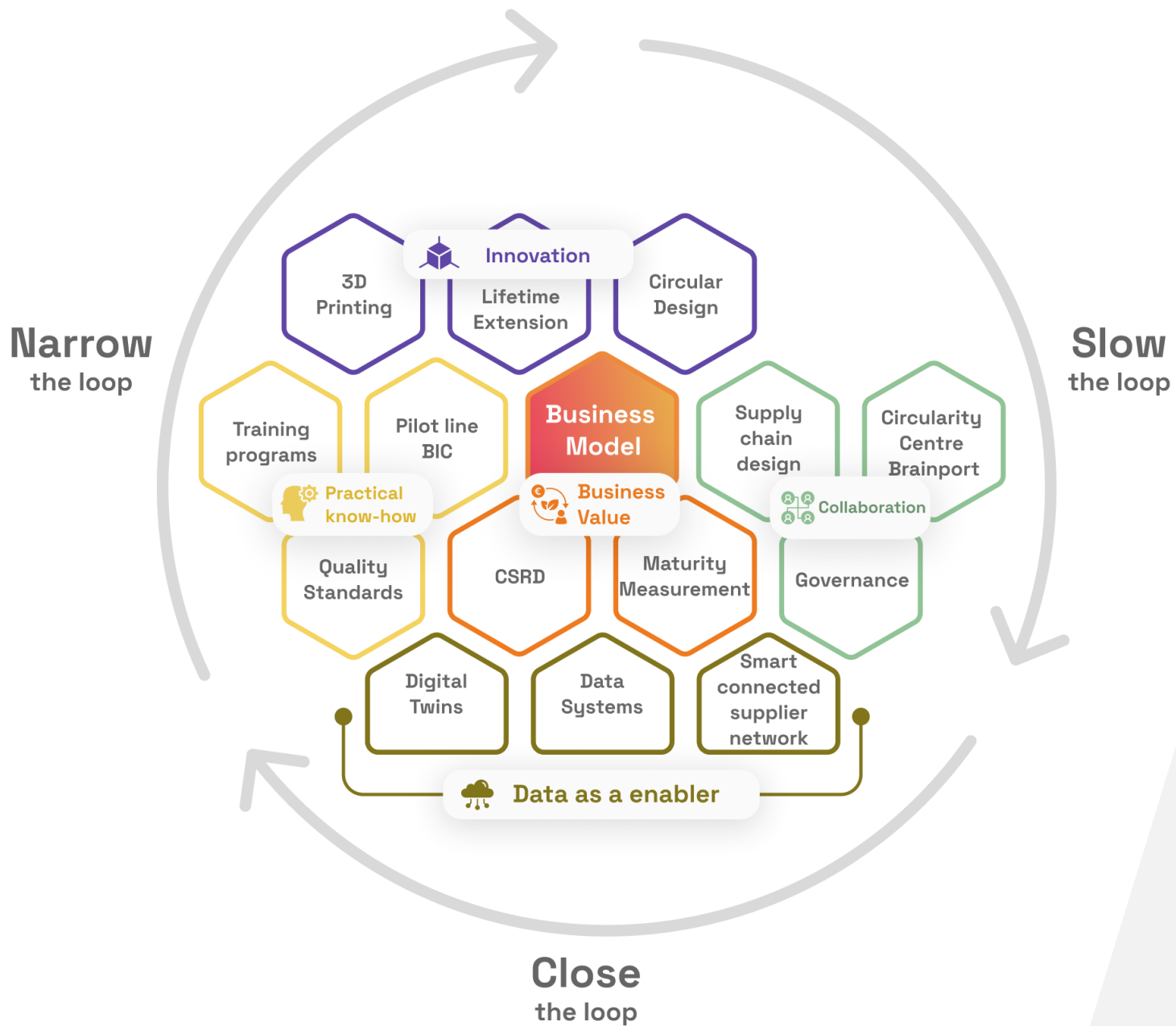
- In depth interviews with 14 semicon value chain companies are the foundation of the program.
- 3 co-creation sessions with key players for validation and fine tuning.





Multiple circularity drivers

Drivers of the circular transition



Visual overview of CBPS program

Way forward after the summer 2024

- Further fine tune CBPS: content using the circular readiness framework and resources (finance).
- Work towards formal commitment and contributions (in time and cash) of participating companies and knowledge institutes.
- Look for opportunities to broaden the scope (number of companies and knowledge institutes within Brainport region), but also explore options towards other NL regions (Oost NL, IQ (Zuid-Holland), Flevoland).
- Make connections towards financing, subsidies, etc (ChipNL, Innovation coalition PNB, TKI, Horizon, ...).

Circular Business Program Semicon (CBPS)

Questions ?

Jolanda Leenhouts – Brainport Industries
j.leenhouts@brainportindustries.nl

Lodewijk Liebrecht - ImpactX
Lodewijk.liebrecht@impactx.nl

Jan Westra – Provence of North Brabant
Jwestra@brabant.nl

Project by



Initiated by



Provincie Noord-Brabant