

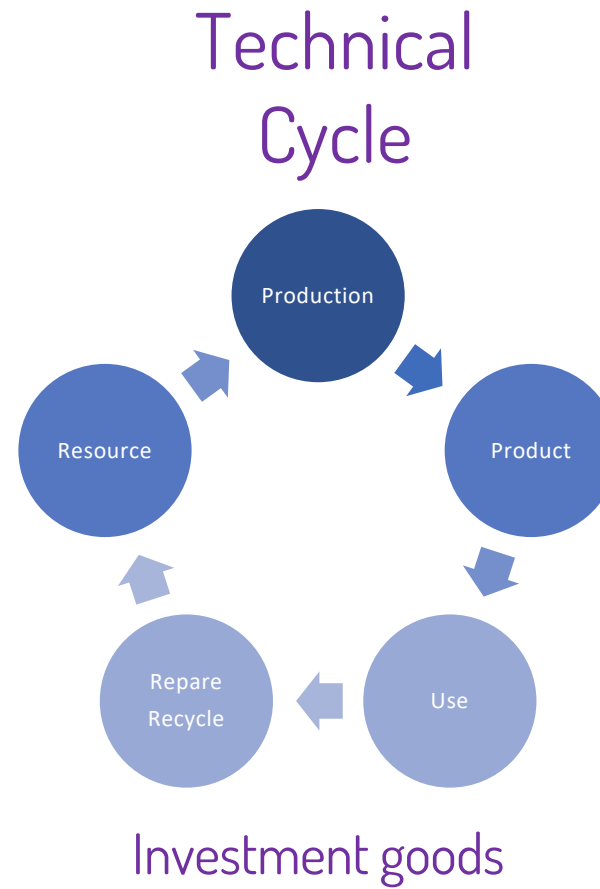
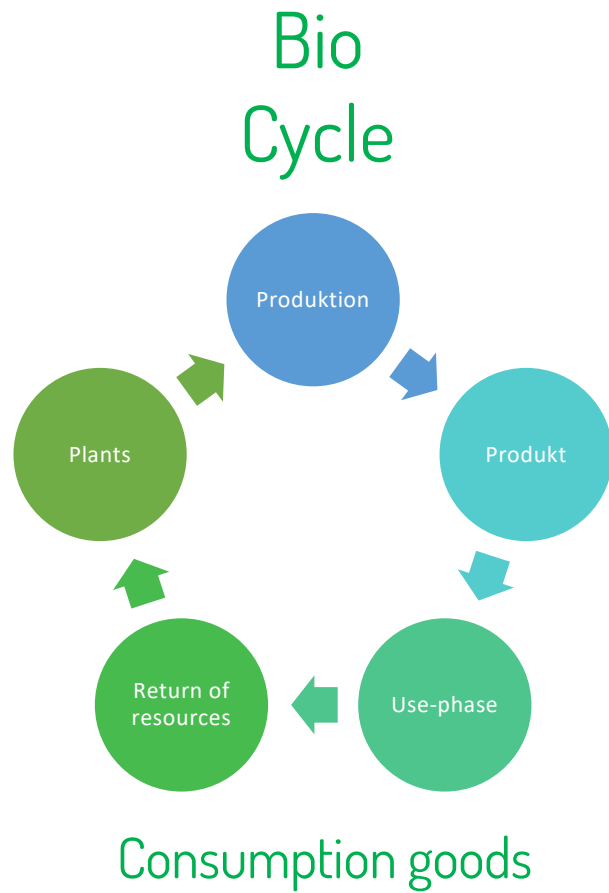


# Thinking Circular

Eveline Lemke

Winter-School, March 25./26., 2021





## Circular Economy

**Regenerate**

Regenerate and restore natural capital

**Share**

Maximise product utilization

**Optimise**

Optimise systems performance effectively

**Loop**

Keep materials and components in closed loops and prioritise inner loops

**Virtualise**

Deliver utility virtually

**Exchange**

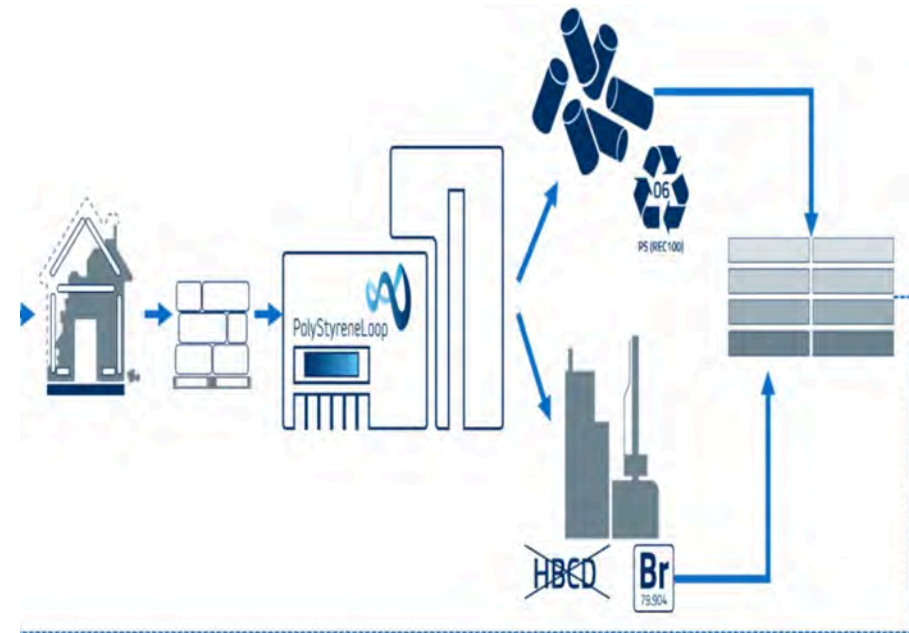
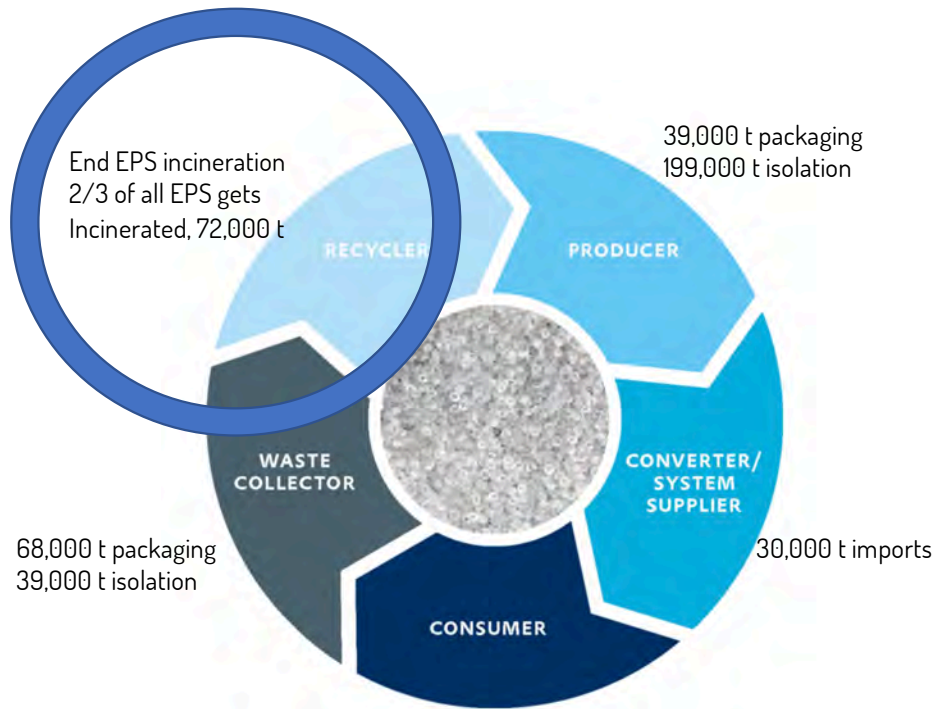
Select resource input wisely

# Beispiel/Example



Problem

# Solution: Polystyrene Loop



„The PolyStyreneLoop Cooperative is set up to demonstrate the feasibility of a large-scale demo plant as a closed-loop solution for the recycling of polystyrene (PS) insulation foam waste and the recovery of bromine. The planned demonstration plant in Terneuzen, Netherlands, will work with the CreaSolv® Technology. The CreaSolv® Technology is a development of Fraunhofer Institute and CreaCycle GmbH.“

Source: <https://polystyreneloop.eu>



# Making the circular business case







Herstellung der Pakete aus dem Rohmaterial

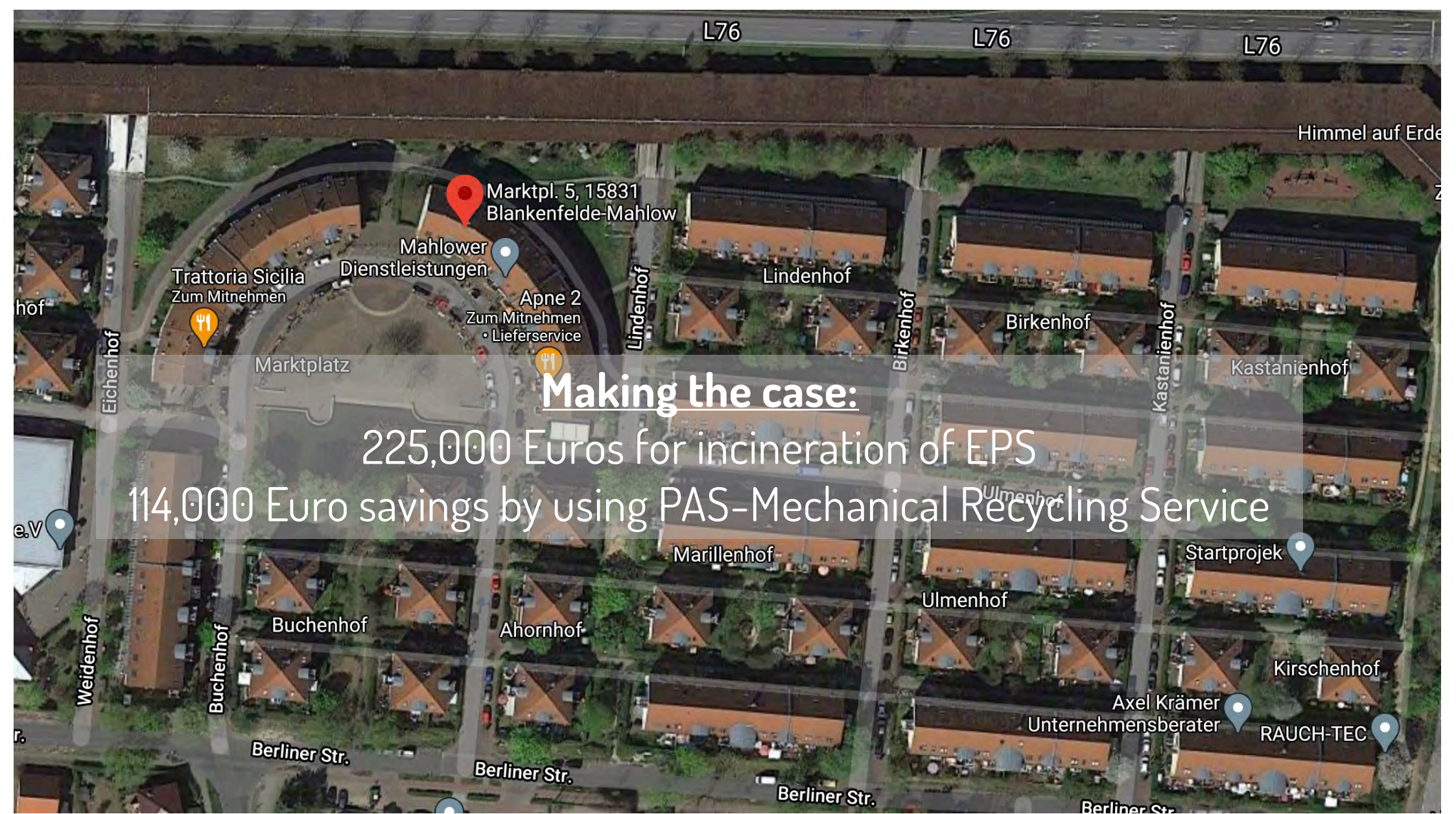
**36 m<sup>3</sup> EPS werden zu.....**

**ca. 0,4 m<sup>3</sup> / 208 kg**

ca. 50 : 1

**Neues Verfahren zur Verdichtung von EPS**





L76

L76

L76

Himmel auf Erde

Marktpl. 5, 15831  
Blankenfelde-Mahlow

Mahlower  
Dienstleistungen

Trattoria Sicilia  
Zum Mitnehmen

Apne 2  
Zum Mitnehmen  
• Lieferservice

Marktplatz

### Making the case:

225,000 Euros for incineration of EPS

114,000 Euro savings by using PAS-Mechanical Recycling Service

Marillenhof

Startprojek

Ulmenhof

Buchenhof

Ahornhof

Kirschenhof

Axel Krämer  
Unternehmensberater

RAUCH-TEC

Berliner Str.

Berliner Str.

Berliner Str.

Berliner Str.



Thank you for your attention:



# Thinking Circular

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