





# Financing the Circular Economy in Flanders



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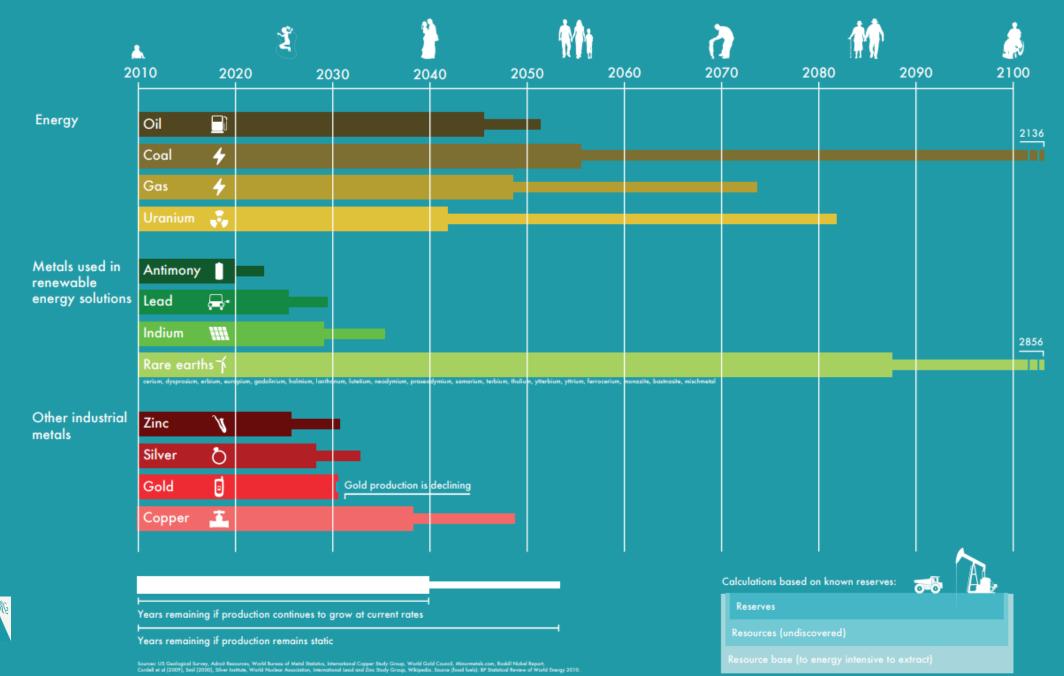
Brigitte Mouligneau
Transition Manager, Circular Flanders



**Steven Peleman** CEO, Triple Helix



## Born in 2010: How much is left for me?



## The linear economy is hitting planetary boundaries

## Today the world is only



93% of materials flow through the economy only once

The circular economy directly addresses the planetary pressures created by our linear take-make-waste system by:



#### **Combatting Climate Change**

While the energy transition can address **55**% of global GHG emissions, the remaining **45**% comes from how we make, use, and discard products.



#### Addressing resource scarcity and geopolitical tensions

Global material extraction has **tripled** in 50 years and now exceeds **100 billion tonnes** annually. Yet only around **20%** of globally extracted materials are reused or recycled, while the rest becomes waste.



#### **Countering biodiversity loss**

More than **90%** of biodiversity loss is linked to the extraction and processing of natural resources.



#### **Creating social & economic opportunities**

The circular economy can unlock €600B in annual savings, create 2 million EU jobs, and generate +€1.8Md additional EU growth potential by 2030.



## Going circular can mitigate risks & leverage opportunities at micro level too

For businesses linear risks are imminent and can materialise in various forms, such as:

#### **Market risks**

e.g. scarcity of raw materials due to increasing demand and limited supply, which results in price volatility



#### **Business risks**

e.g. changing customer demands where there is an increased attention on waste generation and sustainability



#### **Operational** risks

e.g. supply chain failures which threaten the internal operations of the company



### Legal risks

e.g. failure to comply with increasing regulations on circularity and sustainability These linear risks can arise in the full value chain. After all, circularity is a value-chain effort:



Raw materials sourcing



Manufacturing



Usage by clients



**End-of-life** treatment/ recovery

A circular approach helps companies reduce their exposure to linear risks and capture new strategic opportunities:



Lower material dependency & price volatility



New revenue streams & stronger customer alignment



More resilient & efficient supply chains



Better compliance & reduced regulatory exposure



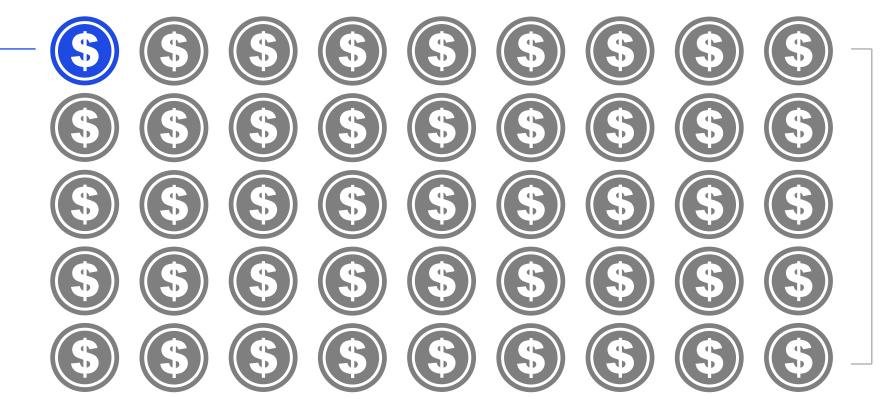
## ... But despite clear benefits, investments in circular economy ventures remain low



## Only ~2% of total global investments goes to circular economy businesses

C The Circularity Gap Report Finance

Circular economy investment (~2%)



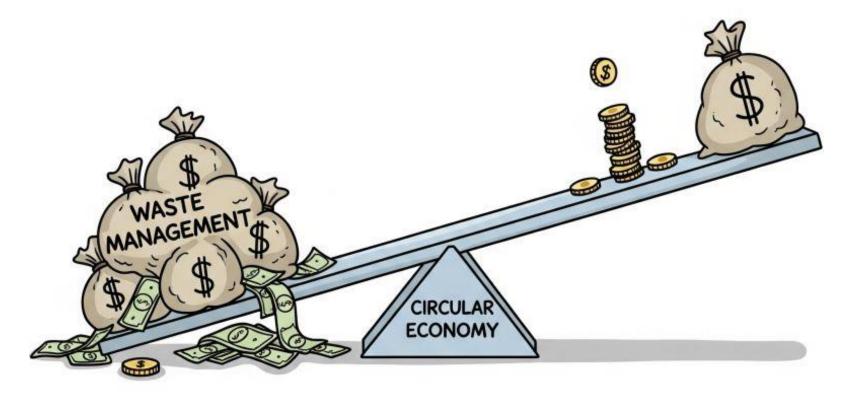
Linear economy investment (~98%)



## A large share of funding goes to conventional, "business-as-usual" recovery-based models

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## WASTE PREVENTION

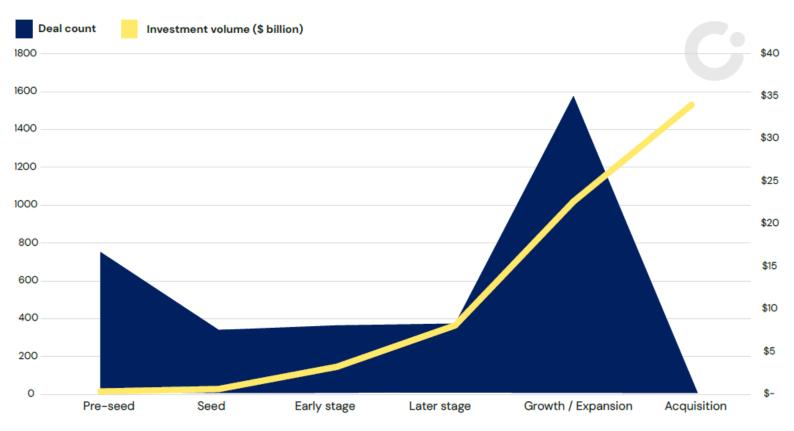




Source: Sreepriya Sridharan (LinkedIn)

## Early-stage, high-impact circular innovations face a deep "valley of death"

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## ... So why are circular economy ventures difficult to finance?



## Key barriers that limit financing for circular ventures



## 1. Misfit with traditional finance logic

- PaaS and ownership-retaining models face higher capital and guarantee requirements
- Short-term cashflow and return expectations misalign with longer circular timelines
- Circular products appear costlier because externalities are not priced

## 2. Higher perceived risk & limited track record

- Lack of validated performance data for circular business models
- Harder risk scoring due to unfamiliar models
- Few comparable cases make benchmarking difficult

## 3. Circular value not captured in risk models

- Linear risks (e.g., resource scarcity) not integrated
- Circular advantages (e.g., durability, reuse, secondary value) not valued
- Longer lifetimes and resource efficiency not monetised

## 4. Regulatory, accounting & knowledge barriers

- VAT, liability and depreciation rules are still designed around linear product lifecycles
- Basel/Solvency capital requirements reinforce linear assumptions
- Bank front-office lacks CE expertise



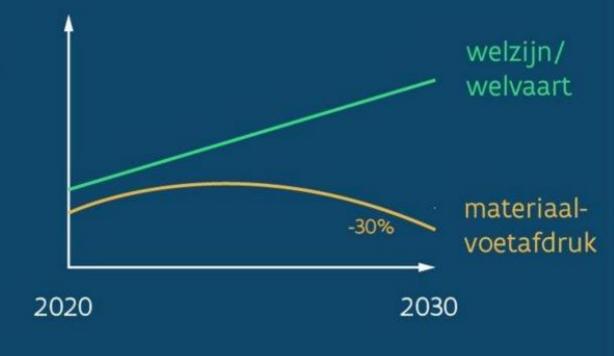
## How do we tackle these challenges in Flanders?



## Transversale beleidsprioriteit Vlaamse regering

# VLAANDEREN ALS KOPLOPER IN CIRCULAIRE ECONOMIE

- ONTKOPPELEN (RELATIEF)
  materiaalvoetafdruk ontkoppelen van welvaart
- REDUCTIE (ABSOLUUT)
  materiaalvoetafdruk -30% tegen 2030
- BEN PUBLIEK-PRIVAAT PROJECT dit realiseren in een partnerschap



## INHOUDELUK

Januari 2021: start van de opmaak van de inhoudelijke werkagenda per thema Eerste helft 2021: inhoudelijke afstemming van en beslissing over de werkagenda's

### 6 werkagenda's

Publiek-private partnerschappen met eigen dynamiek, doelen, trekkers en acties



circulair chemie en bouwen kunststoffen



waterkringlope



bio-economie



voedselketen



### **Roadmap Circulaire Economie**

#### 7 hefbomen

Versnellers om drempels te overwinnen en goede praktijken ingang te doen vinden

#### Beleidsinstrumenten

Lokaal beleid Vlaams Beleid Intra-Belgisch Platform Federaal Europese agenda

### Circulair aankopen

ProCirc Voorbeeldrol overheid Innovatieve overheidsopdrachten

#### Communicatie

Sensibilisering, co-creatie Kennisdeling & best practices Monitoring, rapportering

#### Onderzoek

Strategische onderzoeksagenda's Monitor CE Steunpunt CE-Center

## Innoveren & ondernemen

VLAIO-steun & diensten VC Partnerschap en begeleiding Experimenten, projecten

### **Financiering**

Stimulerings- en investeringsbeleid Vlaams fonds CE? rol PMV?

## Jobs & vaardigheden

Onderwijs Starters en bedrijven Werkgelegenheid/ sociale economie samenwerking van 30 organisaties 100 medewerkers

## THE LEVER FINANCING

The lever financing aims to remove systemic barriers that limit financing for circular innovation and business models in Flanders by:

- Strengthening the enabling conditions for circular financing
- Supporting the development of circular-proof risk models
- Broadening the financing offer for circular business models
- Improving knowledge, tools and collaboration between financiers & entrepreneurs

Co-led by



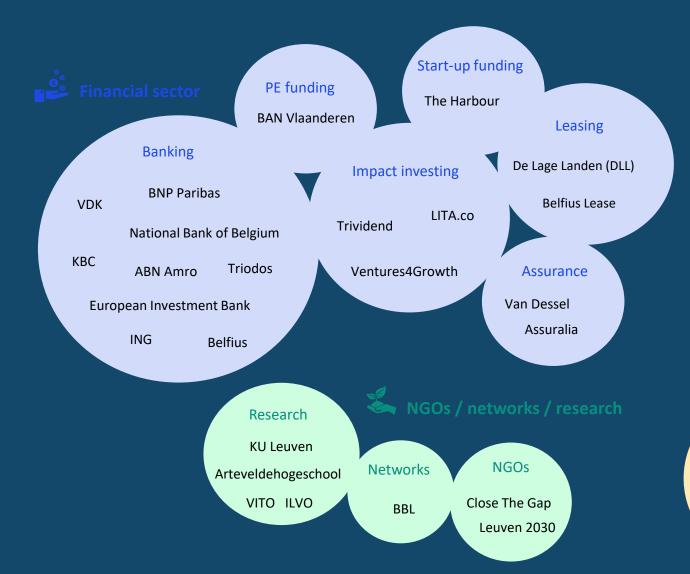


With support of



## A WIDE ACTION GROUP

The lever financing works with a broad, cross-sectoral group of actors.





## **CONCRETE ACHIEVEMENTS**

#### **01 TOOLS DEVELOPED**

#### **CE Evaluator**



Mapping of financing needs & instruments as part of the etraining



#### **02 KNOWLEDGE & CAPACITY BUILDING**

E-training on circular economy for the financial sector (launch: January 2026)

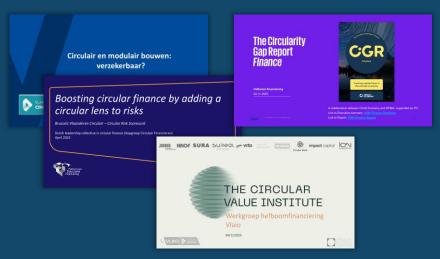


#### Publications on financing the circular economy



#### **03 COLLABORATION & SYSTEM-BUILDING**

Working group sessions to exchange insights



Analysis of concrete circular cases to uncover and tackle financing obstacles



## A real case: How Triple Helix tackled financing barriers in practice

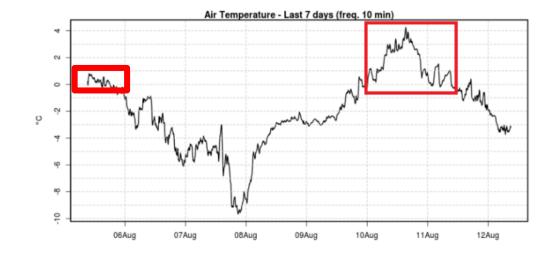






## **Triple Helix – Triple Use 1**

Countering the effects of climate change, but...





#### Comparison and conclusions

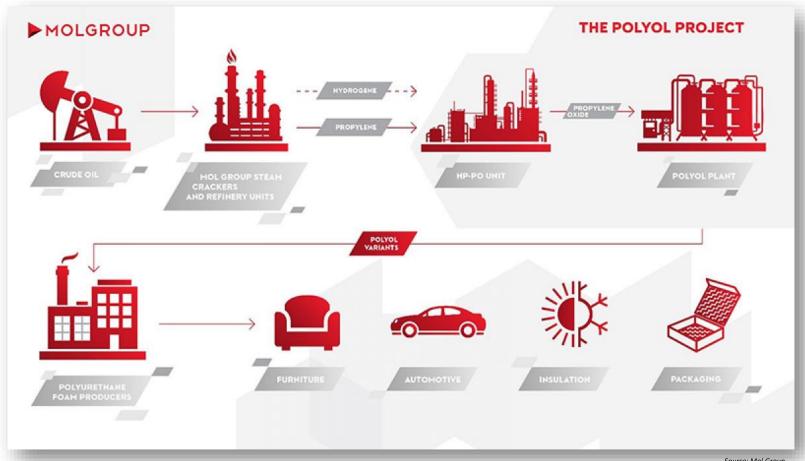
- Reduction of 55% life cycle energy when recycling
- Also, recycling represents a reduction of 25% in energy input
- In addition, incineration of PU is more for sanitization. Thermal energy content of PU is about ½ that of other polymers, even less if wet. Waste incineration is inefficient because incinerators are designed to minimize pollution.
- Finally, the only obstacle is transportation cost and impact, hence our strategy of building a replicable pilot plant treating local waste streams and serving local off-take

SurePUre November 2025



## **Triple Helix – Triple Use 2**

Offense is the best defense, but...



#### **Drivers**

- Slow demand in Asia, US and EU
- Tariff war between US and the rest of the world, including China
- Keep the crackers going...to produce at (below) variable cost
- Short-term market dynamics **BUT long-term** ambitions at play

Source: Mol Group

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## Triple Helix – Triple Use 3

Re-industrialization at high returns, but...

#### Description

The first scenario has a <u>total funding need of €85M to be able to finance</u> a building <u>and two recycling lines</u>, spread out over time <u>to reach</u> full <u>capacity</u> in 2031

✓ Strong exit value

✓ Strategic project

✓ Repayment capacity

✓ Unique technology

#### Project scope

The project CAPEX scope of  $\underline{\text{the}}$  first scenario  $\underline{\text{consists}}$  of

1x Building for operations

2027

1x Split-Phase flex recycling line

2028

1x Split-Phase flex/rigid recycling line

2029

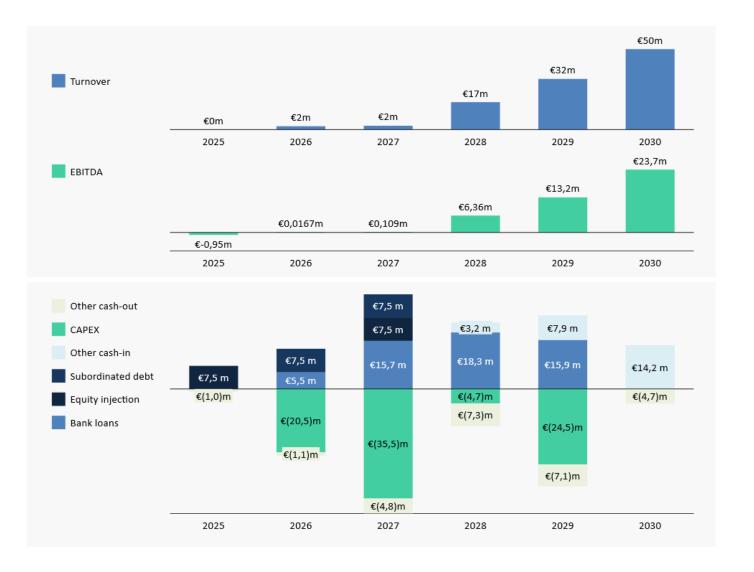
#### Specifics

€ 85M total scenario 1 CAPEX

€ 30M equity financing € 55M bank financing

€ 24M sustainable EBITDA

65% avg leasing %

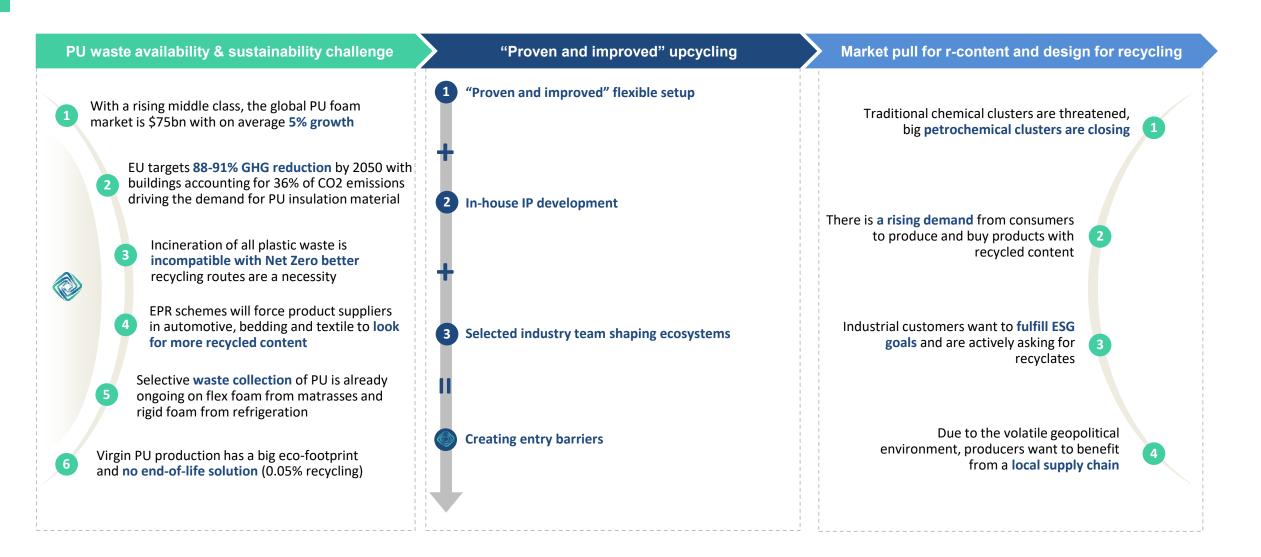




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### **Business Essentials**

Capturing value by converting waste back into raw materials





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## A Positive Signal and Recipe for Recovery

A €100m investment in Antwerp in triple use: industrialization, sustainability, strategic resources

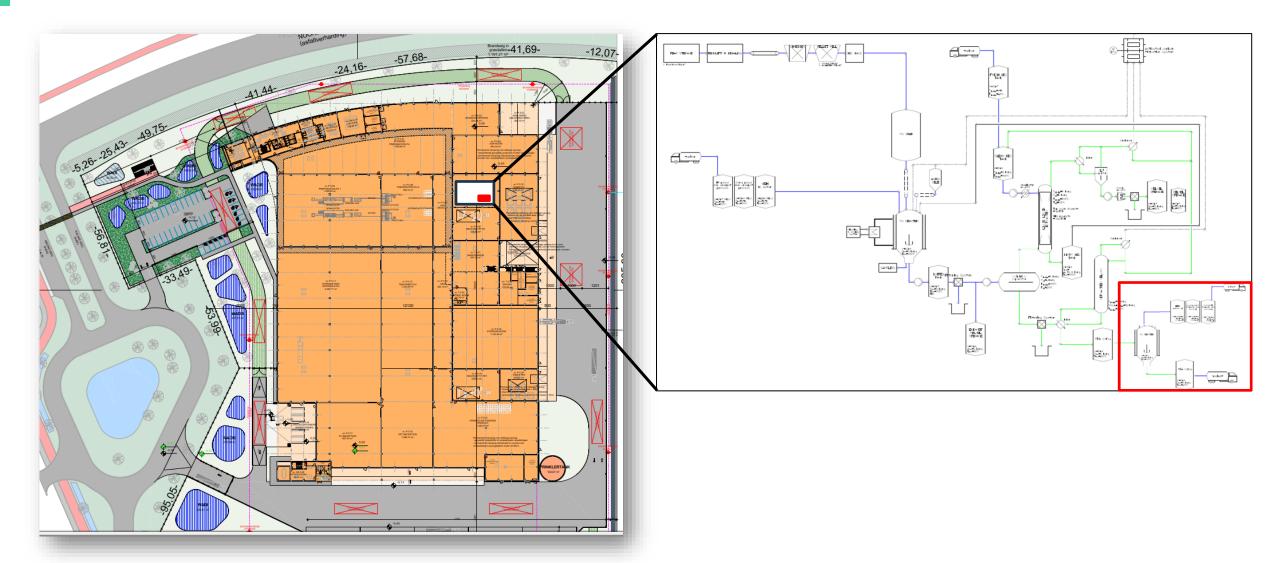




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## **Predictable Success through Proven Expertise**

Derisking to the max leaving almost nothing to 'chance'

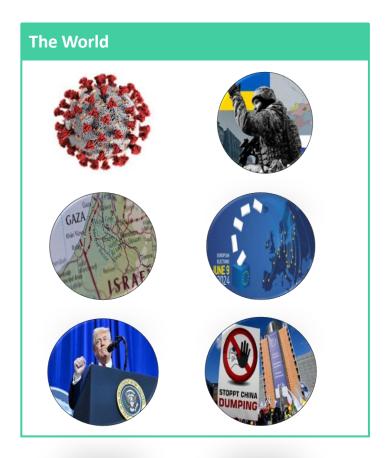




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## **Timeline**

A sequence of compelling events and funding milestones





#### **The Corresponding Structure**

- **Bootstrapping with loans**
- Squeezing the lemon with loans and convertibles
- **Surviving or dying** with the finish in sight
- **Diluting** to get by, extending loans, interest deals
- Blended finance mix with:
  - Equity (chased by exit horizons)
  - Bank lease(yes but...)
  - Commercial credits (not yet but...)
  - Subsidies (but please pre-finance them...)
  - Commercial deals (KEY maar CAPEX nodig om product te maken...)

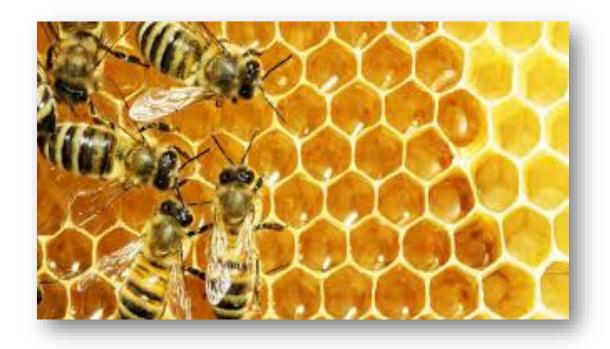
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## The Choice of Choices for Government, Investors and Financial Institutions

Risk vs Reward - What type of economy do we wish to become...?







## **Contact**

## BlueChem

INCUBATOR FOR SUSTAINABLE CHEMISTRY

### **Triple Helix Office**

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