



Circular Economy
Service Platform

New business from industrial waste & side streams -
enabled by **Circular Economy Service Platform**





Circular Economy
Service Platform

Be part of the future transformation > **join CEP**





Circular Economy
Service Platform

Collaborate with your partners > **join CEP**

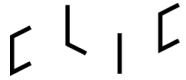




Circular Economy
Service Platform

Create a new value cluster > **join CEP**





Modular and integrated cloud solution



Circular Economy Service Platform

CEP is a circular economy business environment. A circular economy is an attractive and viable alternative that businesses have already started exploring today. It aims to decrease the environmental impact of material usage by enhancing their life cycle by circulating higher value added products and services.

Tags

Search

New Technologies

- Development Projects
- Innovations Follow-up
- Funding Support

Present Solutions

- Specifications Archive
- Solution Bank
- IPR and Licensing

Market Integration

- Market Research
- Productization
- Value Chain Definitions

Supply Chain Management

- Fraction Availability
- Volume Planning
- Supply Chain Optimization

Regulation

- Directives and Requirements
- Approvals and Permissions
- Authority Reporting

Digital Services

- Databases and Analytics
- Service Integration and Administration
- Documentation Sharing



Circular Economy Service Platform

CEP on kiertotalouden liiketoimintaympäristö. Kiertotalous on kiehtova ja käypä vaihtoehto jota liiketoiminnot ovat jo alkaneet toteuttaa. Sen tarkoituksena on vähentää materiaalkäytöstä aiheutuvia ympäristövaikutuksia pidentämällä materiaalien elinkaarta ja tuottamalla korkeamman lisäarvon tuotteita ja palveluita.

Avainsanat

Hae

Uudet teknologiat

- Tutkimushankkeet
- Innovaatioiden seuranta
- Tutkimushankkeiden rahoitus

Olemassa olevat ratkaisut

- Tuoteominaisuus -arkisto
- Ratkaisupankki
- IPR ja lisenssointi

Markkinaintegraatio

- Markkinatutkimus
- Tuotteistus
- Arvoketjun määritys

Toimitusketjun hallinta

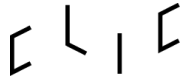
- Jaesaatavuustiedot
- Tuotannon suunnittelu
- Toimitusketjun optimointi

Säädökset ja määräykset

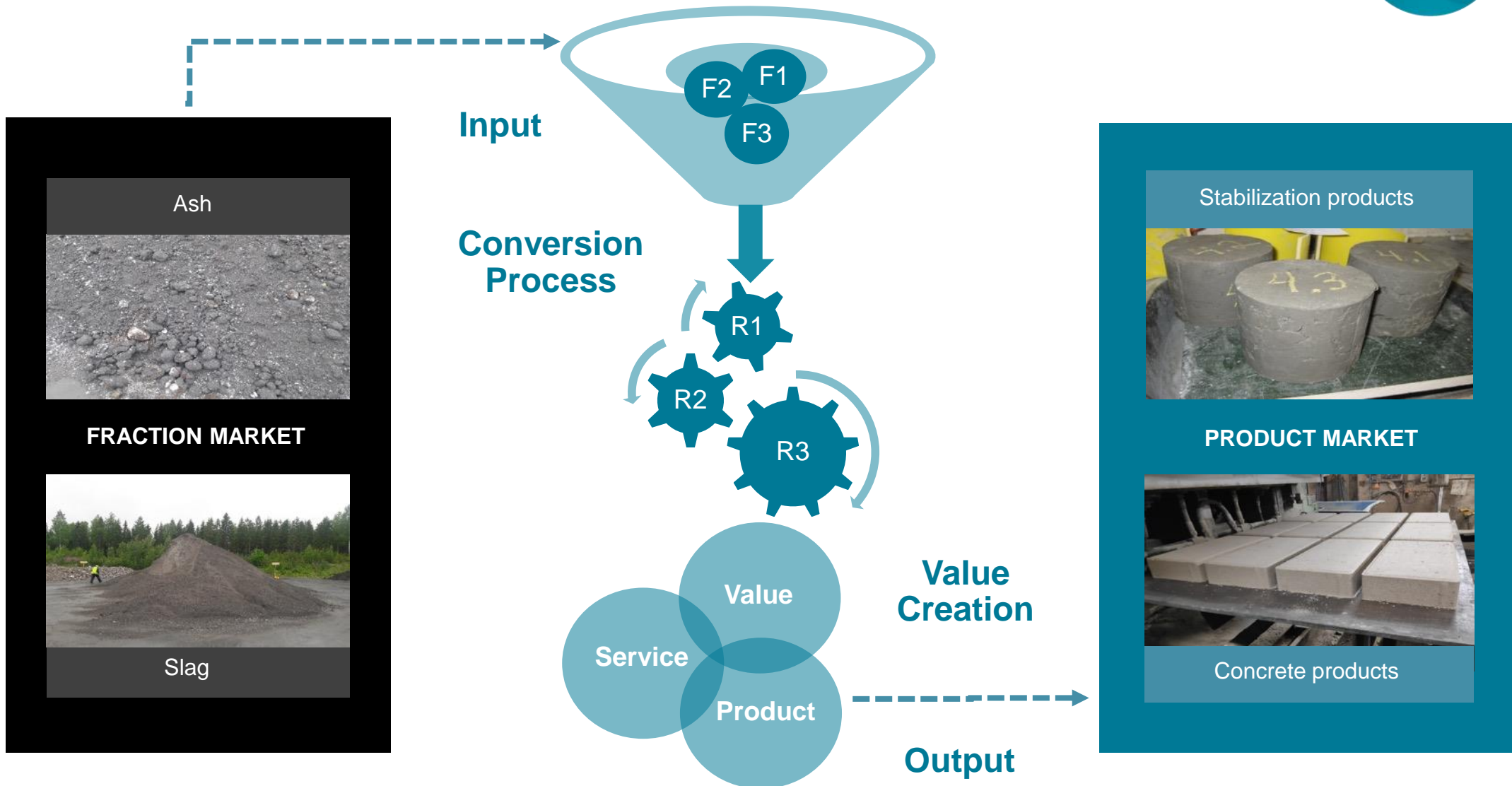
- Direktiivit ja vaatimukset
- Hyväksynnät ja luvat
- Viranomaisraportointi

Digitaaliset palvelut

- Tietokannat ja analytiikka
- Palvelukokonaisuuksien integraatio ja hallinta
- Asiakirjojen jakaminen



Enabled by **CEP**





Facilitating sustainable growth



Circular Economy
Service Platform

In partnership with

Partners



Supporting partners



Project coordination and support



Ministry of Economic Affairs
and Employment of Finland



CEP – How to take part?

- Check out our website for more information <https://clicinnovation.fi/project/CEP>
- Contact CEP platform service to learn and discuss more about opportunities pekka.stahlberg@upm.com or pirjo.kaivos@clicinnovation.fi
- Create and develop your cluster or take part in the existing cluster as a service provider



Circular Economy
Service Platform

Thank you!

Contact:

pirjo.kaivos@clicinnovation.fi

+358 40 540 1790

CLIC



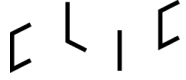
Circular Economy
Service Platform

CEP supporting material



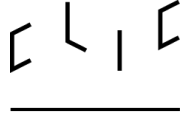
Background

- The significance of circular economy is increasing globally as natural **resources are diminishing and waste amounts are growing**. Businesses in many sectors are facing the challenge of resource scarcity. Hence **waste** should be treated as **a valuable resource**.
- Circular economy is not just about the efficient use and recycling of materials; it requires **new economic & business models**
- Industries already apply many circular economy principles. Next step is to **reduce** significantly **waste** gone to landfills and **maximize the value of recovered side streams**.
- Side streams have major **economic potential**. The challenge is that the streams are scattered, and their overall management is missing. This means that potential customers are not reached, i.e. side streams value network is not working effectively.
- However, efficient **utilization of side streams** and the commercialization of new value add applications represent **a major opportunity** to the industries ecosystems



Why CEP?

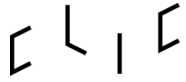
- Common circular economy side stream information system to all parties
- Comprehensive service platform portfolio for circular economy
- Expert network behind service modules to provide adequate solutions
- Easy and fast on-boarding to all users
- Flexible scale-up to all usages
- Affordable, cost efficient and integrated business collaboration platform
- Design technology enables totally controlled information sharing among the parties
- Mobility features offer a seamless information transmission across processes
- Linkage between other CE services makes it one-stop-shop for CE-matters



Objectives for **CEP**

To provide a **‘One Stop Service for CE Clusters and new businesses’** which

- Acts as a **market integrator** in new innovations support mechanisms
- Brings together **cost-efficiently** existing and future solutions
- Combines **critical** mass enabling investments for new business opportunities
- Prevents **silos** between different parties and enables commercializing of innovations
- Enables **continuous** development and resource efficiency
- Maximizes **added value** of reuse and enhances objectives of circular economy

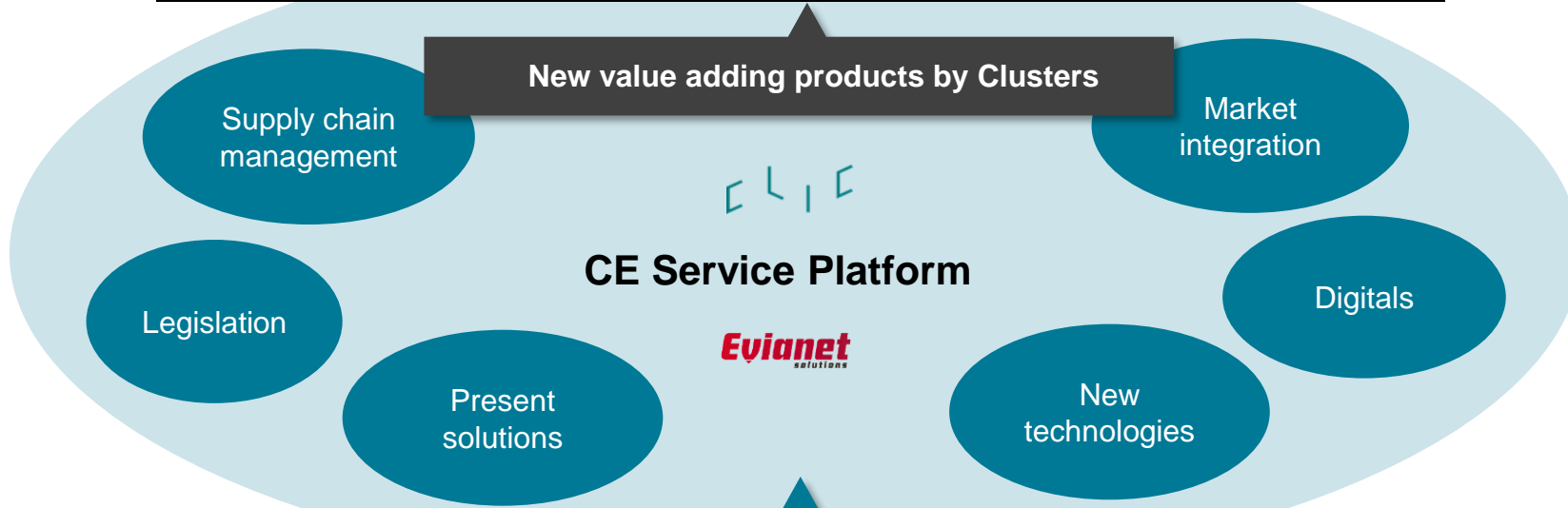
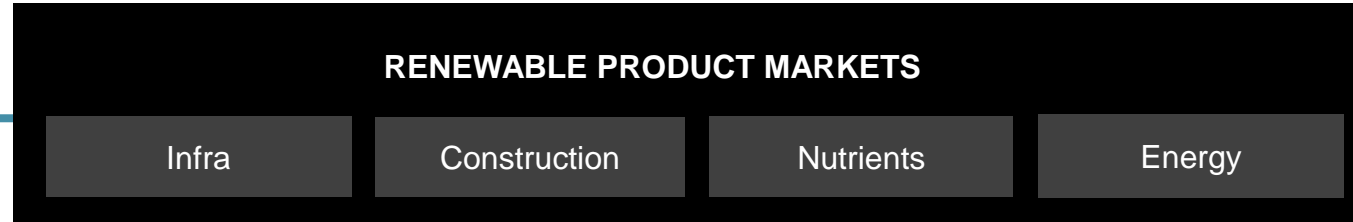


The CEP ecosystem



CONSORTIUM

PROVIDERS



- Valmet
- ANDRITZ
- efortum
- The Biofore Company UPM
- Metsä
- storaenso
- kemira
- Gasum
- L&T

- SYKE
- Luke

CEP – roles & operation model

CEP platform service

- Exchanges and manages circular economy related data and information between different side stream service provider operative systems. CEP acts as an intermediary service between side stream sellers and buyers
- CEP does not own the data or the content, technology or product rights or side streams in the system. CEP does not function as a common marketplace to sell the actual side stream products
- The data in CEP platform is owned and responsibility of the data is with the side stream provider. The owner of the data is responsible for the accuracy and validity of the data for each side stream until the ownership of the side stream moves to next service provider in the delivery chain

CEP – roles & operation model

Cluster business operation model

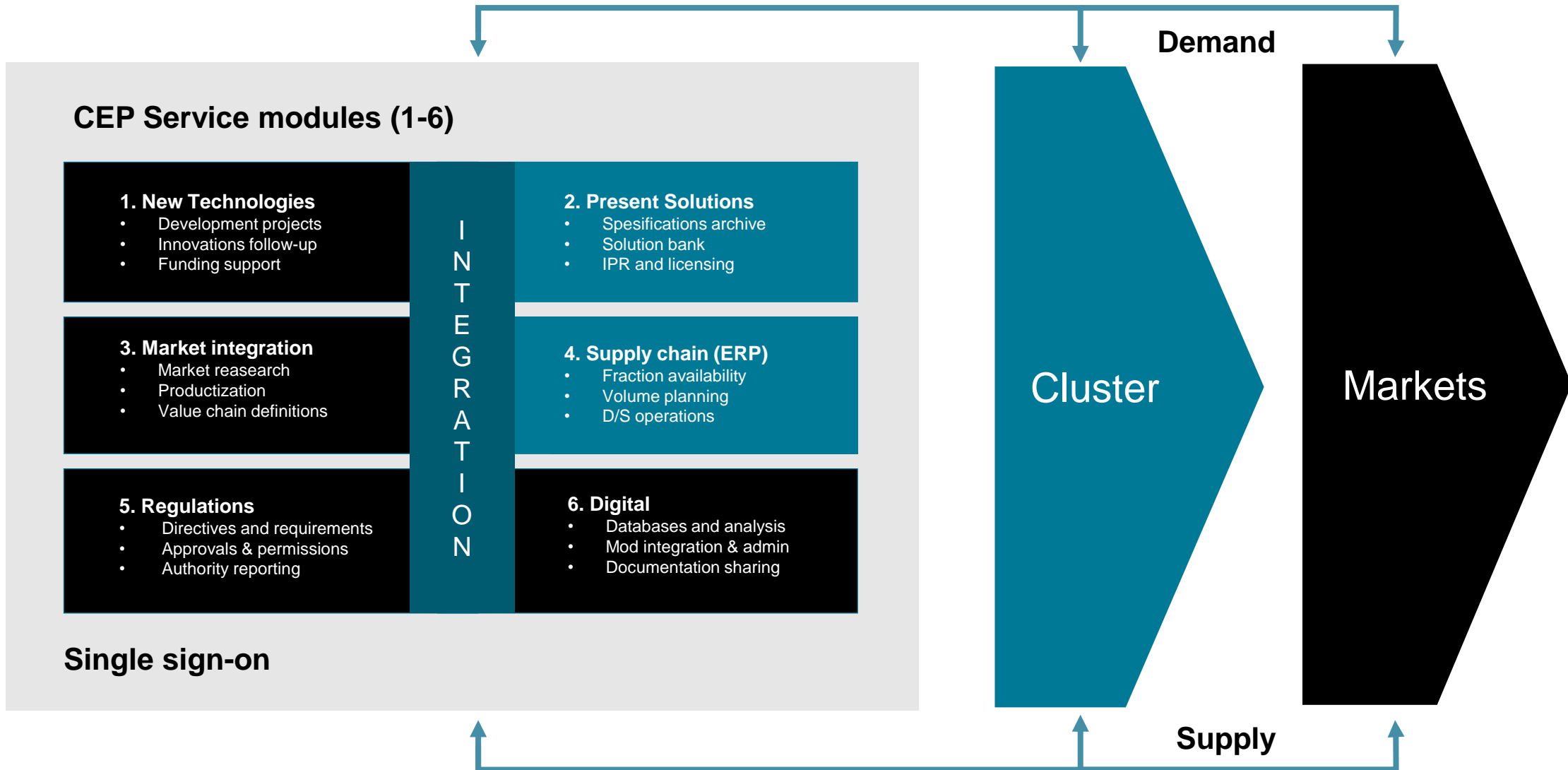
- CEP service provides opportunity to create additional value and business for any industry side stream. The service enables industries to create new products and services from underutilized side streams and to market the products to any desired target group
- Clusters are typically formed from several service operators, which in co-operation decide cluster value creation and business models to be used with the service. The service operators operate their physical side streams according to their own operation and service models
- Cluster operators that buy and utilize side streams are responsible of management, further development and sales of the side stream products and services to target markets

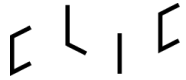
Service providers in the platform (side stream owners, technology owners, R&D)

- Each service provider is responsible for their own data, side stream operations and according to their role. The additional value for the service is being created when as much data as possible between the ecosystem operators is shared to maximize the usage of different side streams



CEP – platform service modules





CEP – module linkage

