

Maintaining, updating and expanding the knowledge base

Recommendations and Beyond 2017



15 YEARS
ON



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ProSUM going forward

Project Recommendations

Sarah Downes



Key recommendations

Improving
characterisation of
material content in
products

Improving
characterisation of
material content in
wastes

Improving
quantification of
stocks and flows in the
urban mine

Improving
harmonisation and
interoperability of
datasets

Expanding the scope
of the UMKDP

Increasing material
recovery and supply

Key recommendations

CENELEC Standards

Improving
characterisation of
CRM content in wastes

Improving
quantification of
stocks and flows in the
urban mine

Improving
harmonisation and
interoperability of
datasets

Expanding the scope
of the UMKDP

Increasing material
recovery and supply

Key recommendations

CENELEC Standards

Increase and improve reporting

Improving quantification of stocks and flows in the urban mine

Improving harmonisation and interoperability of datasets

Expanding the scope of the UMKDP

Increasing material recovery and supply

Key recommendations

CENELEC Standards

Increase and improve reporting

Targeted sampling campaigns

Improving harmonisation and interoperability of datasets

Expanding the scope of the UMKDP

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Key recommendations

CENELEC Standards

Increase and improve reporting

Targeted sampling campaigns

ProSUM Protocols
Raw Materials
Scoreboard
Criticality Assessment

Expanding the scope
of the UMKDP

Increasing material
recovery and supply



Key recommendations

CENELEC Standards

Increase and improve
reporting
Targeted sampling
campaigns

Targeted sampling
campaigns to reduce
unknown whereabouts

ProSUM Protocols
Raw Materials
Scoreboard
Criticality Assessment

Treatment and
recovery
Additional wastes

Increasing material
recovery and supply



Key recommendations

CENELEC Standards

Increase and improve
reporting
Targeted sampling
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ProSUM Protocols
Raw Materials
Scoreboard
Criticality Assessment

Treatment and
recovery
Additional wastes

Recoverable
commodities



Beyond 2017

What ProSUM means for you
Pascal Leroy



Improving the knowledge base

Improving the **knowledge base** (and confidence in data in the knowledge base) is a key condition for effective recycling.

Elements that
affect recycling
rates:

- ☐ Technical recyclability
- ☐ Accessibility of components
- ☐ Economic viability
- ☐ Collection mechanism
- ☐ Entry into the recycling chain
- ☐ Optimal technical set-up adapted to product type
- ☐ Sufficient capacity
- ☒ **Knowledge base**

“prosum” is Latin for

I am useful



Unique Value Proposition

The UMKDP is the world's first one-stop-shop knowledge data platform that contains data and intelligence that is easy to access, peer-reviewed, comprehensive, up-to-date, high-quality, structured, impartial, broad in scope and verifiable.

Unique Value Proposition

first

easy to access peer-reviewed
comprehensive up-to-date high-quality structured
impartial broad verifiable



End-users

Market

- Raw materials producers
- (Component) Manufacturers
 - Automotive
 - Electronics
 - Batteries
- Processors, recyclers, smelters
- Compliance schemes

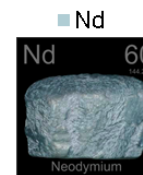
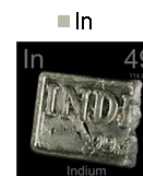
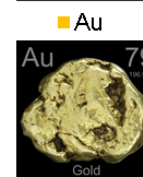
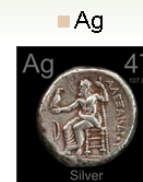
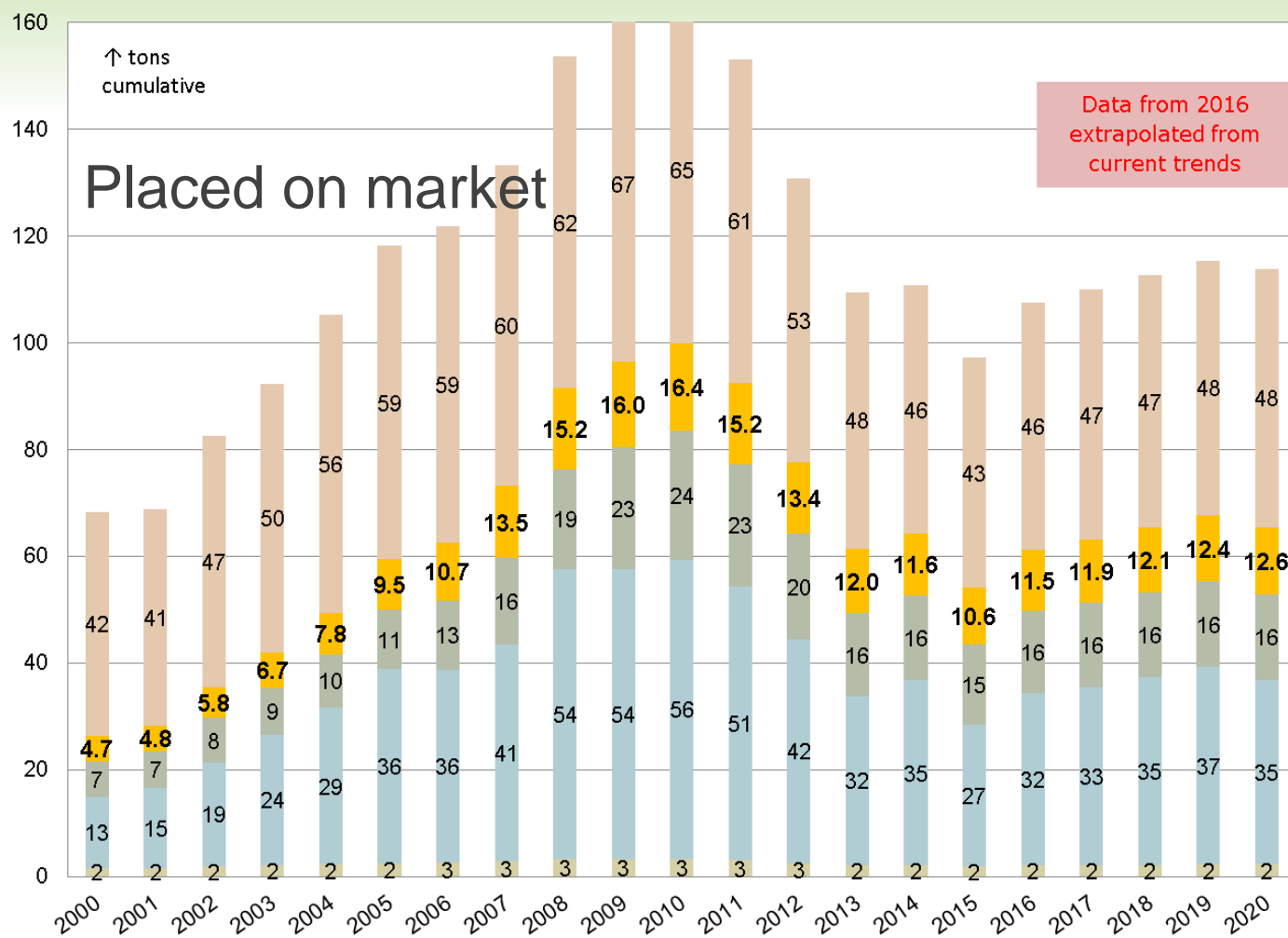
Policymakers

- European Commission:
 - JRC
 - EIP on Raw materials,
 - DG Environment
 - DG Growth
- Member States Ministries:
 - Economic Affairs
 - Environment Affairs,
 - Foreign Affairs,
 - Defense
- Statistics agencies

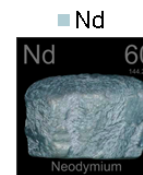
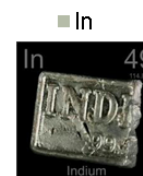
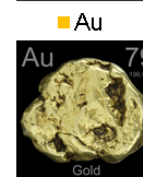
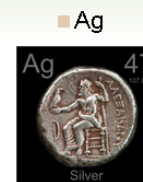
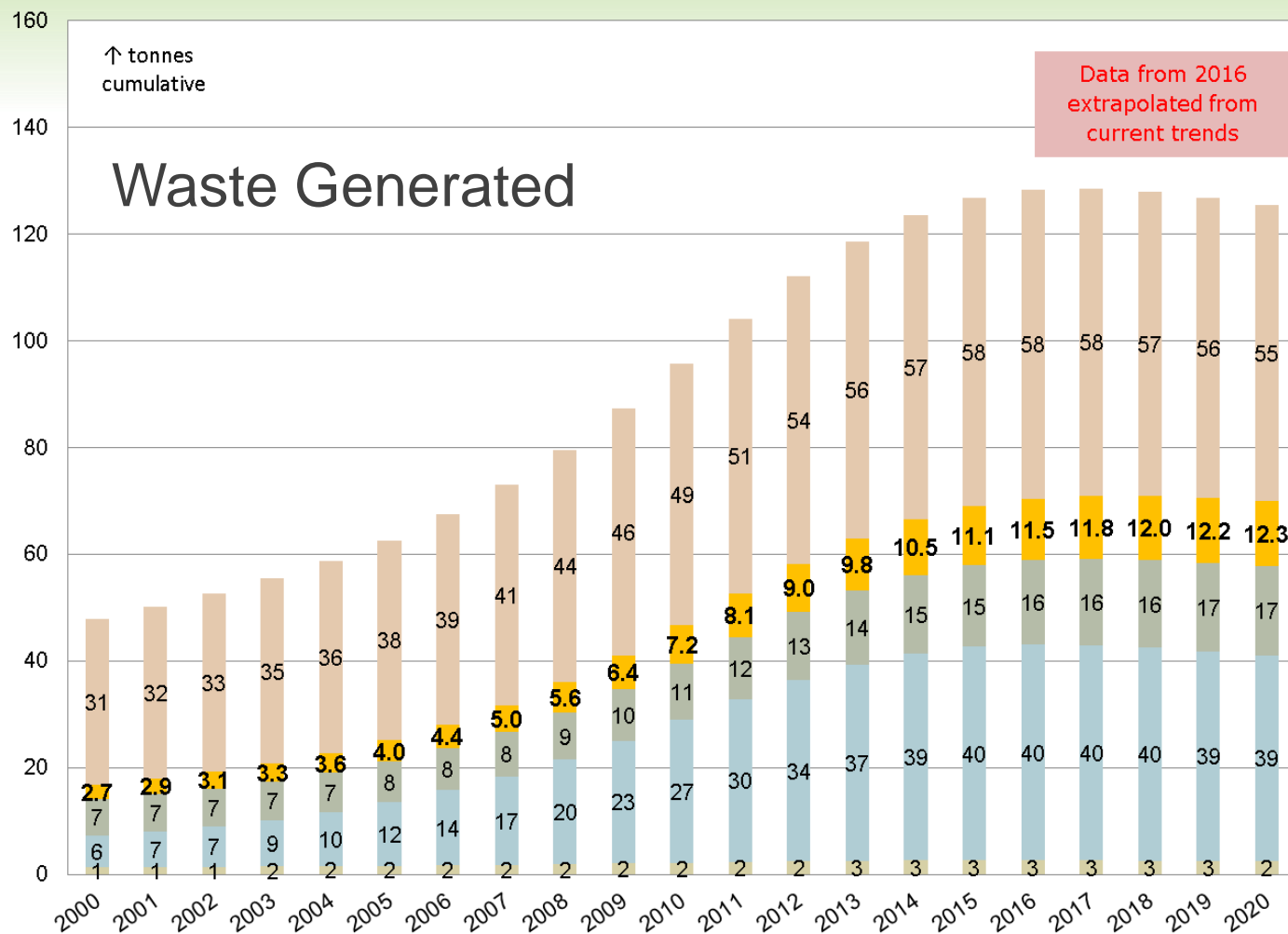
Research

- Research institutes
- Universities
- Competence centres
- Consultants
- LCA software providers

Flows of materials in screens



Flows of materials in screens



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Policymakers

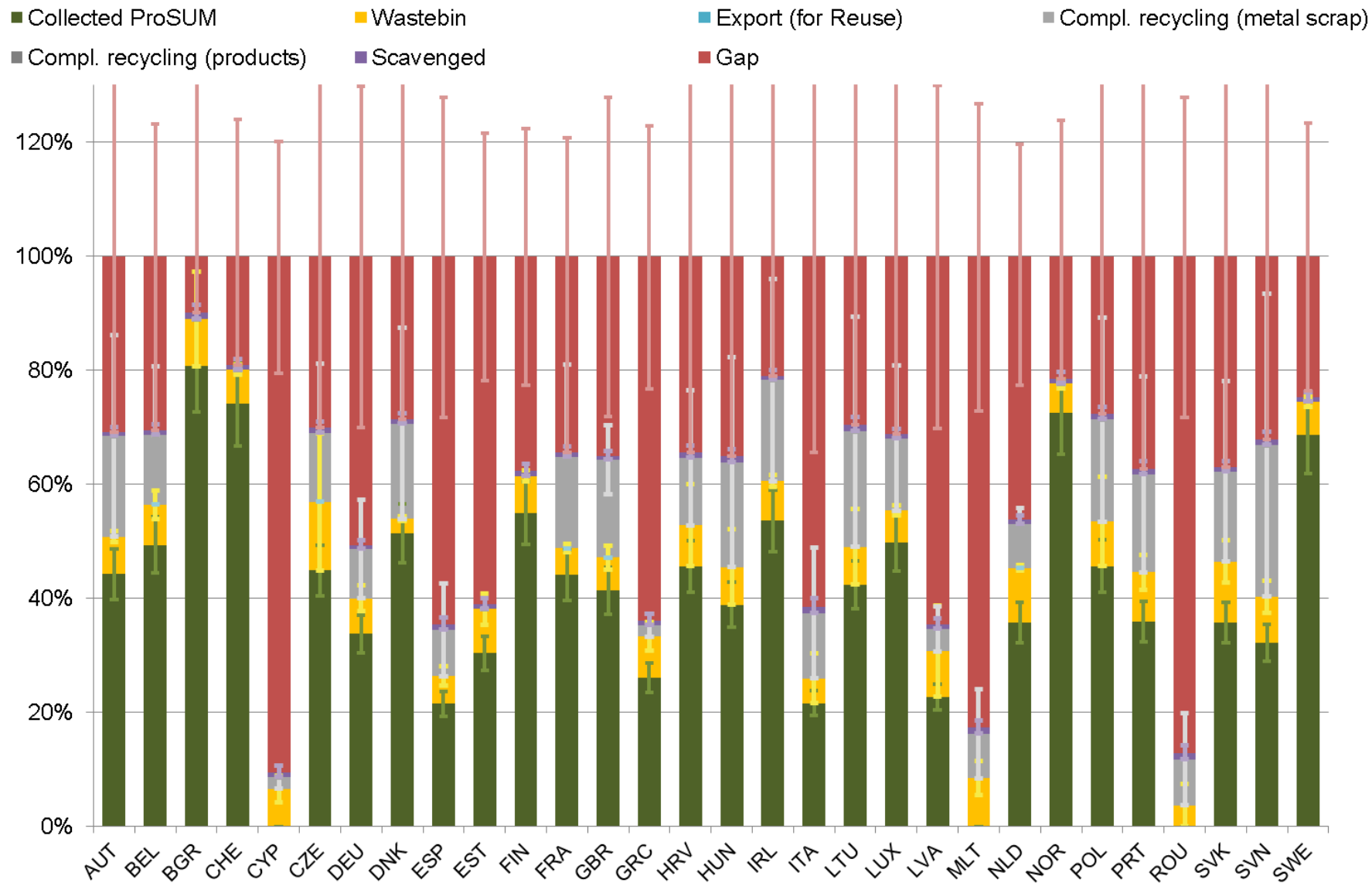
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Waste Flows 2015 - EU28+2

(against WEEE Generated = 100%)



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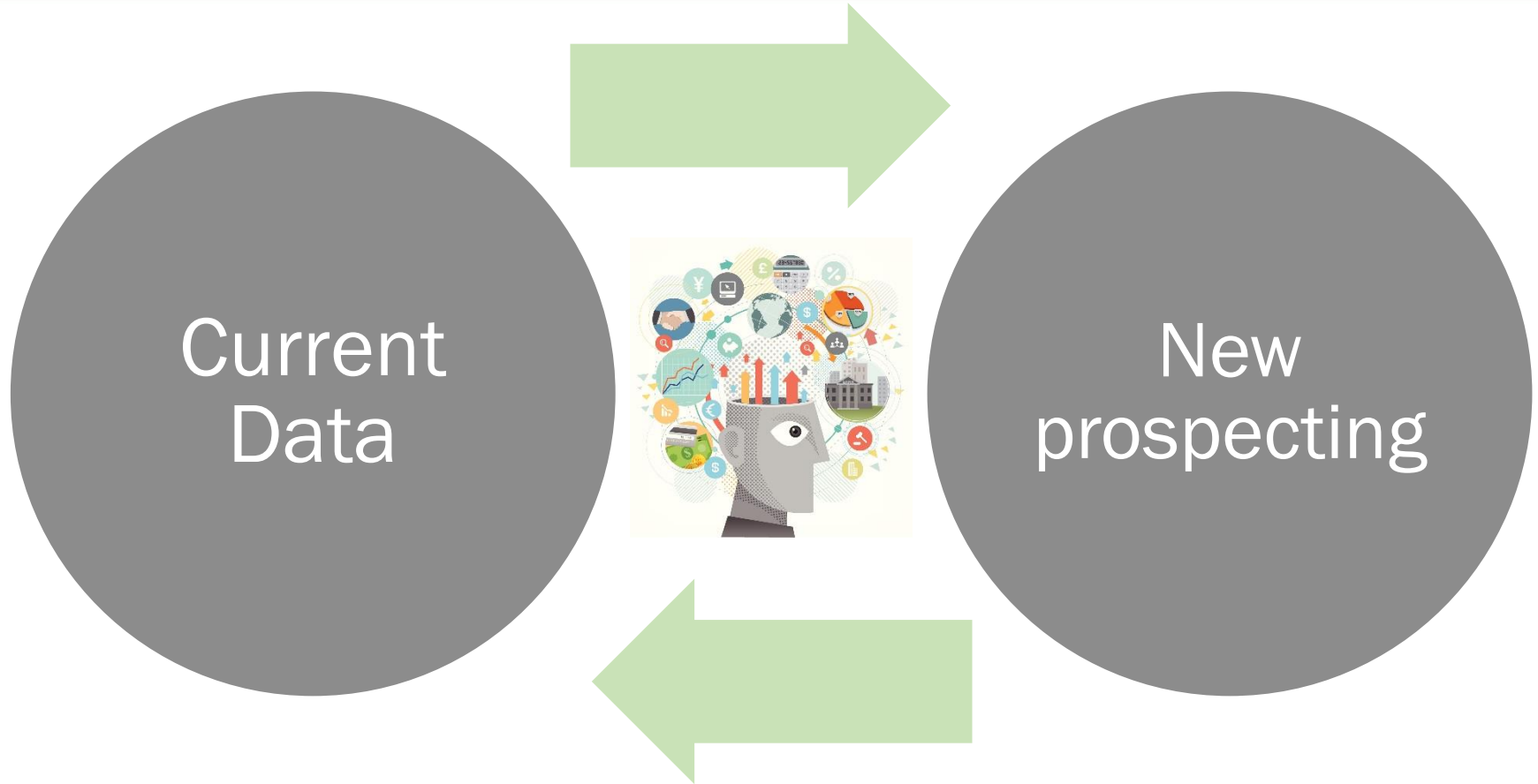
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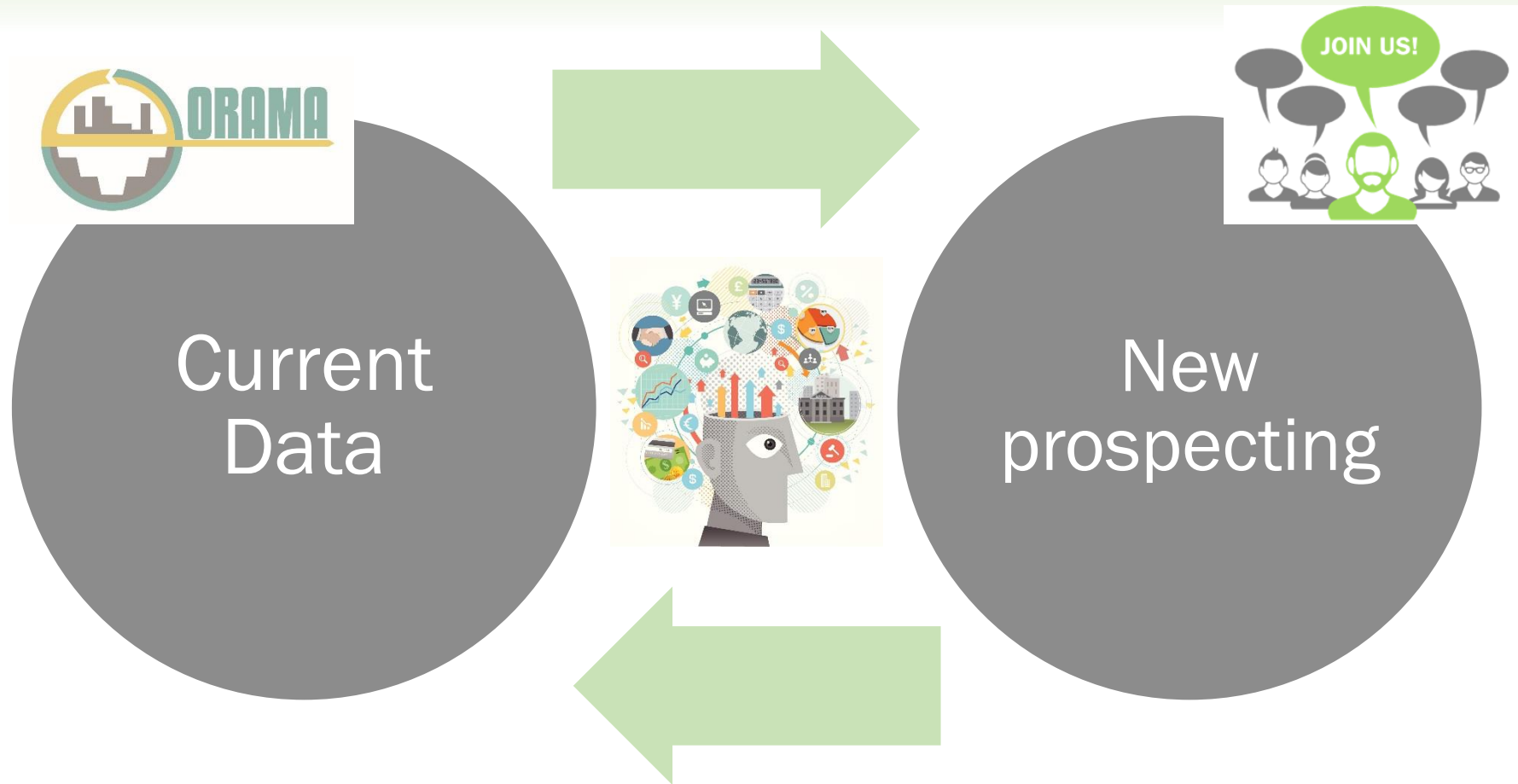
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What next?



What next?



What next?



- ❑ Show how to create robust Material Systems Analyses and Sankey diagrams for stocks and flows.
- ❑ Connect data with JRC's Raw Materials Information System (RMIS).
- ❑ Identify best practices in projects, e.g. Minerals4EU, ProSUM, MICA
- ❑ Support policies and investments in primary and secondary raw material industries.
- ❑ Develop protocols to update data.



What next?



- ❑ Understand end-users' needs: Market analysis, market testing.
- ❑ On that basis, develop services.
- ❑ Contract with data providers to maintain data.
- ❑ Promote the ProSUM platform.
- ❑ Plugging ProSUM platform into RMIS 2.0.
- ❑ Expand depth and width of data in platform.
- ❑ Reach out to end-users through Information Network
- ❑ Connect with other networks.