



Camera di Commercio
Molise



European Union
European Regional
Development Fund

“How to stimulate secondary raw material markets”

“In which way could be determined the prices for recyclable materials?”

Fabrizio Di Gregorio



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 **CONAI** IS A **NON PROFIT SYSTEM**, ESTABLISHED BY LAW,

OWNED BY PACKAGING PRODUCERS AND USERS (FILLERS), member of
Key notes



- Over **1 million members**, committed to achieving the **recycling and recovery targets of all packaging** placed on the market
- **6 Packaging Materials Consortia** of producers: aluminum, glass, paper, plastic, steel, wood
- **Self-financed by “environmental fee”** to compensate the additional fees of the separate collection of packaging waste
- **ANCI – CONAI Framework Agreement**: a 5 year-guarantee to take back separately collected packaging materials, remunerated on the basis of quantity and a quality index
- Packaging **prevention programmes**



The packaging family



**PRIMARY
PACKAGING**

«Packaging developed to sell goods to consumer».



**SECONDARY
PACKAGING**

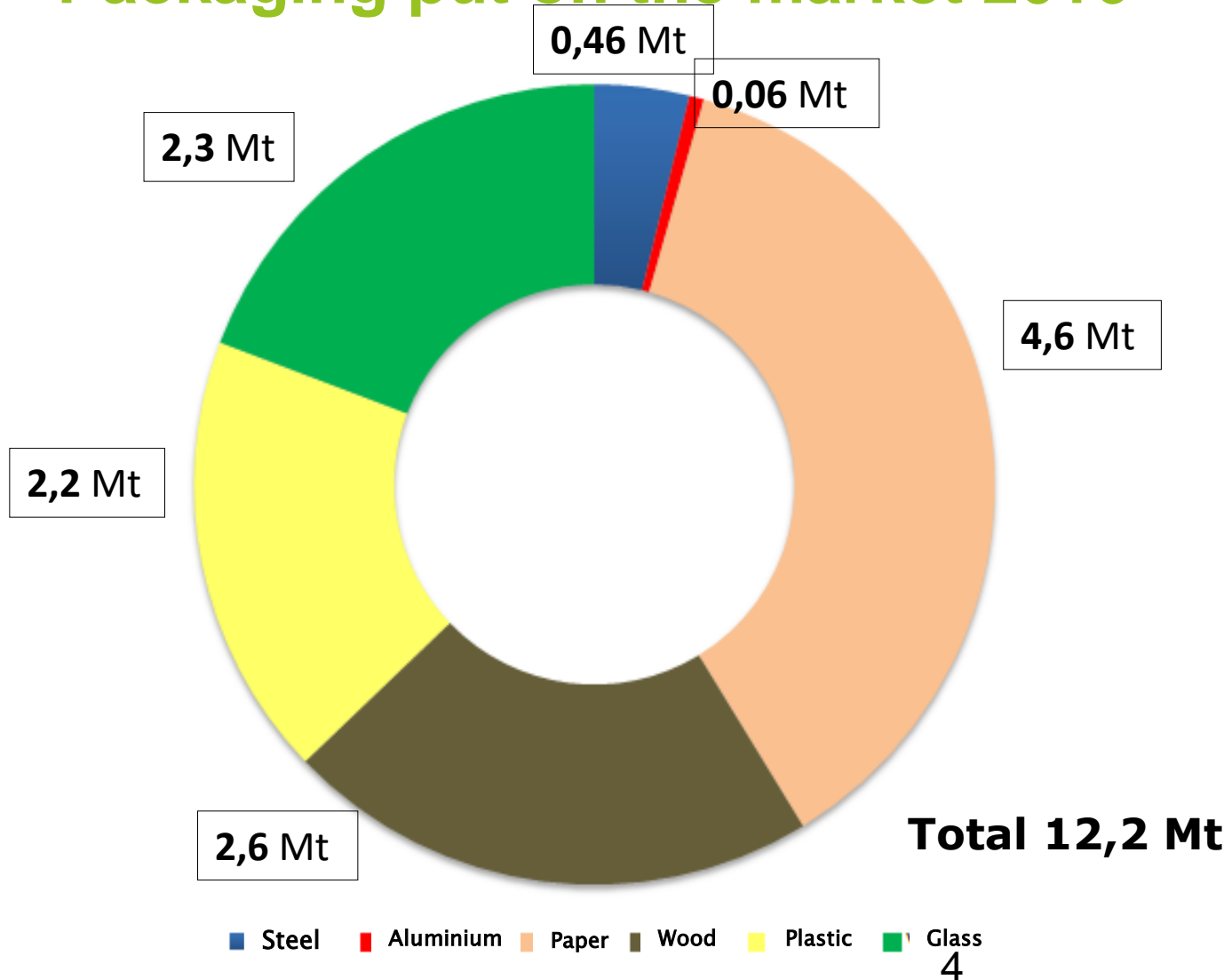
«Packaging developed to collect a certain amount of goods, both in the cases »



TERTIARY PACKAGING

«Packaging developed to help handling and transportation of goods and materials»

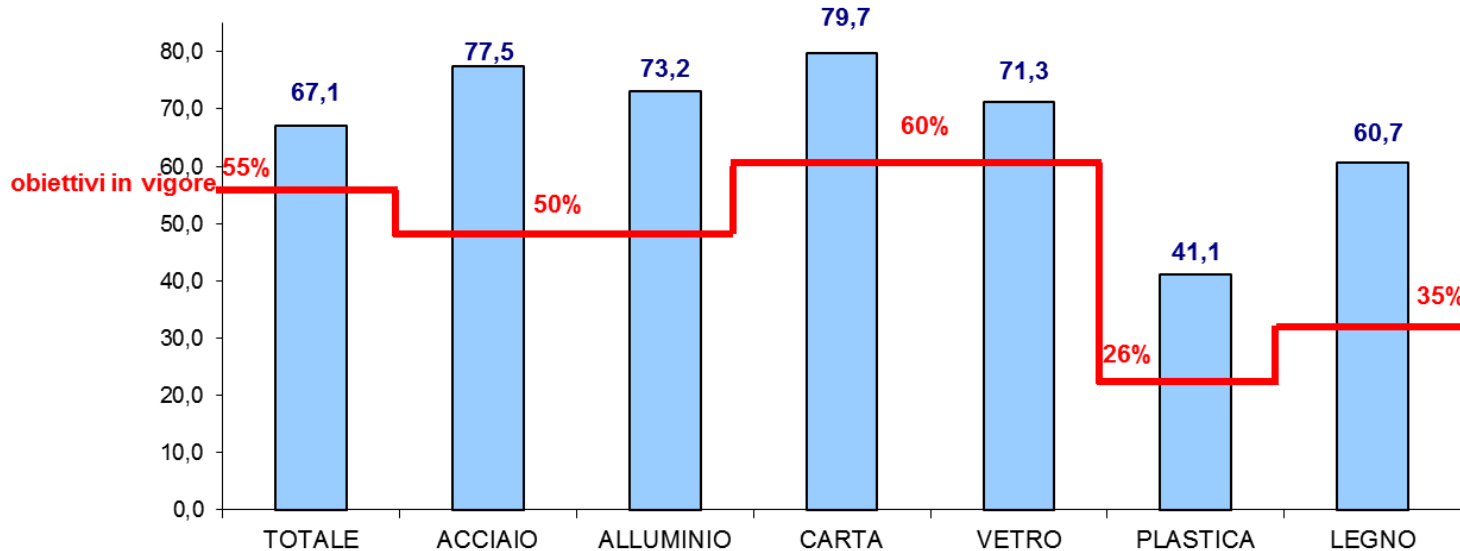
Packaging put on the market 2016



Recycling statistics 2016 and current targets

4,4 Mt of packaging waste were managed through
The Framework Agreement ANCI-CONAI

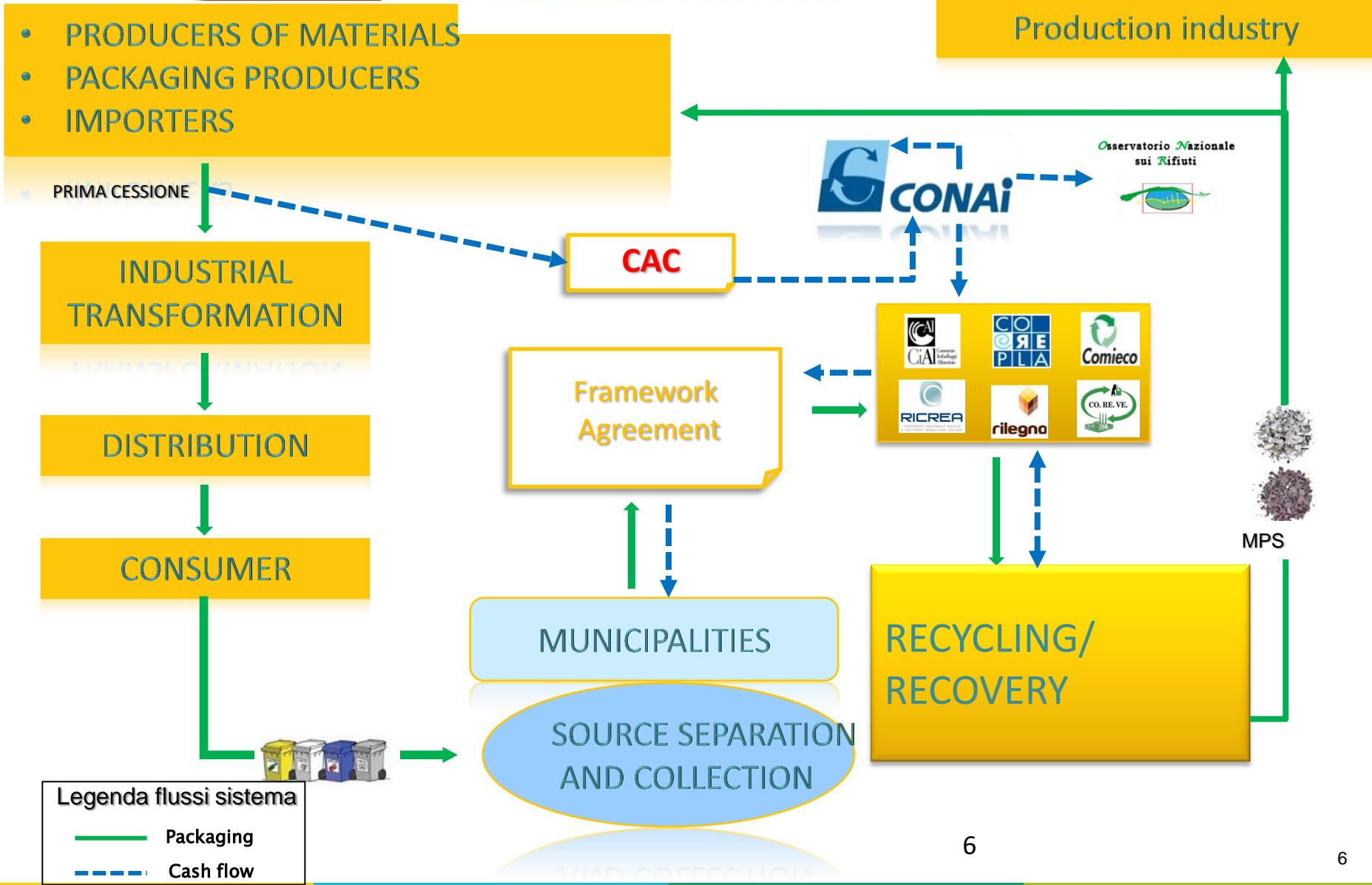
% on packaging put on the market



■ avviato a riciclo

— Current targets

Recycling statistics 2016



Environmental fees: CAC

| MATERIALS | CAC 2015 €/ton | CAC 2016 €/ton | CAC 2017 €/ton | CAC 2018 €/ton |
|------------------|--------------------------|-----------------------|-----------------------|-----------------------|
| STEEL | 26,00/21,00/13,00 | 13,00 | 13,00 | 8,00 |
| ALUMINIUM | 45,00 | 45,00 | 45,00 | 45,00/35,00 |
| PAPER | 4,00 | 4,00 | 4,00 | 10,00 |
| WOOD | 8,00/7,00 | 7,00 | 7,00 | 7,00 |
| PLASTIC | 188,00 | 188,00 | 188,00 | 179 /208/228 |
| GLASS | 20,80 | 17,30 | 17,30/16,30 | 13,30 |

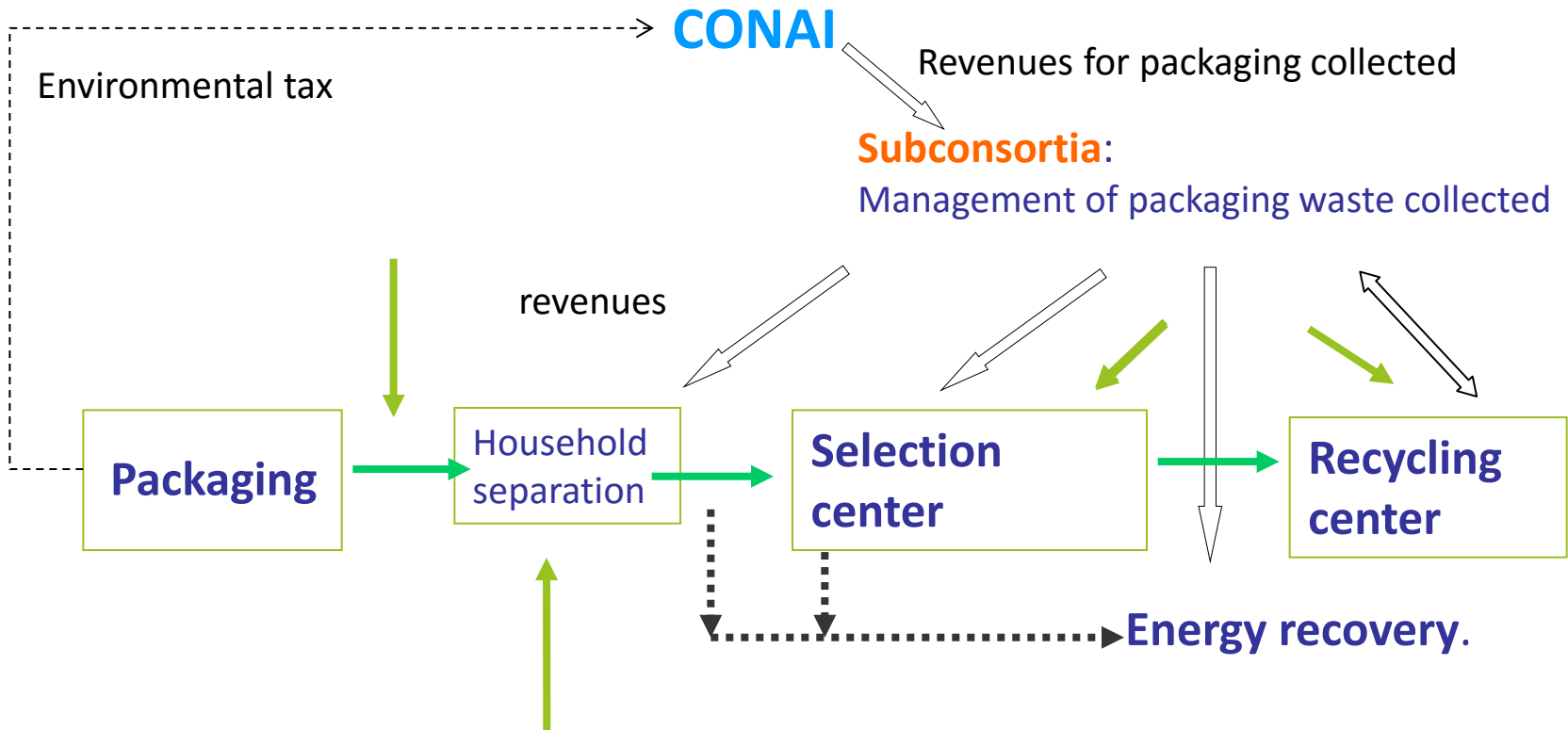
In 2017 more than 500 Meuro from industries

Recycling rate in the Circular Economy perspective

| | Current targets (Direttiva 2004/12 CE) | | Proposal (COM 2015/569) | | Italy |
|-----------------------|--|------------|----------------------------|----------------|--------------|
| | min. | max | al 2025 min | al 2030 min | 2016 |
| Recovery rate | 60% | - | | | 78,6% |
| Recycling rate | 55% | 80% | 65% | 75% | 67,2% |
| Recycling rate | | | | | |
| steel | 50% | - | 75% | 85% | 73,4% |
| aluminium | 50% | - | 75% | 85% | 69,9% |
| paper | 60% | - | 75% | 85% | 79,7% |
| wood** | 15% | - | 60% | 75% | 61,1% |
| plastic** | 22,5% | - | 55% | | 40,7% |
| glass | 60% | - | 75% | 85% | 70,9% |

** In Italy: 35% for wood, 26% for plastic

The Framework Agreement



Public Administration:
Organization of household separation

Legenda flusso:

- Material to recycle
- Cash flow
- operations
- Material to energy recovery

Revenues from packaging materials collected separately

| Materials | Maximum (€/ton) | Minimum (€/ton) |
|-----------|--------------------|--------------------|
| Steel | 112,43 | 43,72 |
| Aluminium | 551,60 | 150,44 |
| Paper | 99,28 | 49,64 |
| Wood | 16,75 | 8,38 |
| Plastic | 395,14 | 80,23 |
| Glass | 45,64 | 5,02 |

Different revenues for collected steel packaging

Steel packaging waste from household separation

| FASCIA | CORRISPETTIVI | | | | | ONERI SMALTIMENTO |
|------------|---------------|------------|------------|------------|------------|----------------------------|
| | 2014 | 2015 | 2016 | 2017 | 2018 | |
| Eccellenza | 108,00 €/t | 110,16 €/t | 112,32 €/t | 114,48 €/t | 116,64 €/t | A carico di RICREA |
| 1 | 97,00 €/t | 98,94 €/t | 100,88 €/t | 102,82 €/t | 104,76 €/t | A carico di RICREA |
| 2 | 82,00 €/t | 83,64 €/t | 85,28 €/t | 86,92 €/t | 88,56 €/t | A carico del convenzionato |
| 3 | 63,00 €/t | 64,26 €/t | 65,52 €/t | 66,78 €/t | 68,04 €/t | A carico del convenzionato |
| 4 | 42,00 €/t | 42,84 €/t | 43,68 €/t | 44,52 €/t | 45,36 €/t | A carico del convenzionato |

Steel packaging waste from residual waste

| Fascia | FE | €/ton |
|--------|----------------|-------|
| 1 | Fino al 10% | 60,00 |
| 2 | Dal 10% al 20% | 50,00 |
| 3 | Dal 20% al 30% | 30,00 |

Steel packaging waste from bottom ash

| Fascia | FE | €/ton |
|--------|----------------|-------|
| 1 | Fino al 20% | 40,00 |
| 2 | Dal 20% al 30% | 30,00 |

Revenues for collected aluminium packaging

Aluminium packaging waste from household separation

| IMBALLAGGI IN ALLUMINIO | | |
|--------------------------------|------------------------------|----------------------|
| Fascia Qualitativa | Frazioni estranee | Corrispettivo |
| A + | fino al 2% | 550,00 Euro/t |
| A | oltre al 2% e fino al 5 % | 450,00 Euro/t |
| B | oltre il 5 % e fino al 10 % | 300,00 Euro/t |
| C | oltre il 10 % e fino al 15 % | 150,00 Euro/t |

Aluminium packaging waste from residual waste

| Fascia | FE | €/ton |
|---------------|----------------|--------------|
| A | Fino al 10% | 250,00 |
| B | Dal 10% al 20% | 130,00 |

Aluminium packaging waste from bottom ash

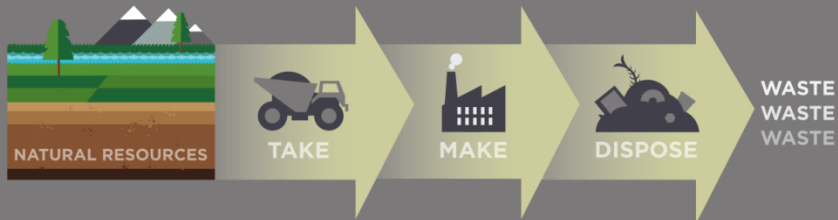
| Fascia | FE | €/ton |
|---------------|----------------|--------------|
| A | Fino al 10% | 300,00 |
| B | Dal 10% al 20% | 200,00 |

Different revenues from glass

| Fasce | FE | Infusibili | €/ton |
|--------------|------------|-------------------|--------------|
| a | ≤ 1 | $\leq 0,3$ | 45,5 |
| b | ≤ 2 | $\leq 0,4$ | 42 |
| c | ≤ 3 | $\leq 0,5$ | 39 |
| d | ≤ 4 | $\leq 0,8$ | 27 |
| e* | $\leq 6,5$ | $\leq 1,5$ | 5 |

Transition to a Circular economy

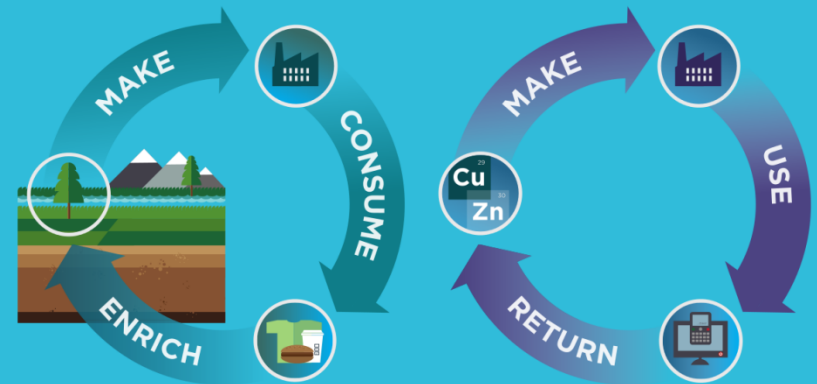
LINEAR ECONOMY



TECHNICAL & BIOLOGICAL MATERIALS MIXED UP

ENERGY FROM FINITE SOURCES

CIRCULAR ECONOMY

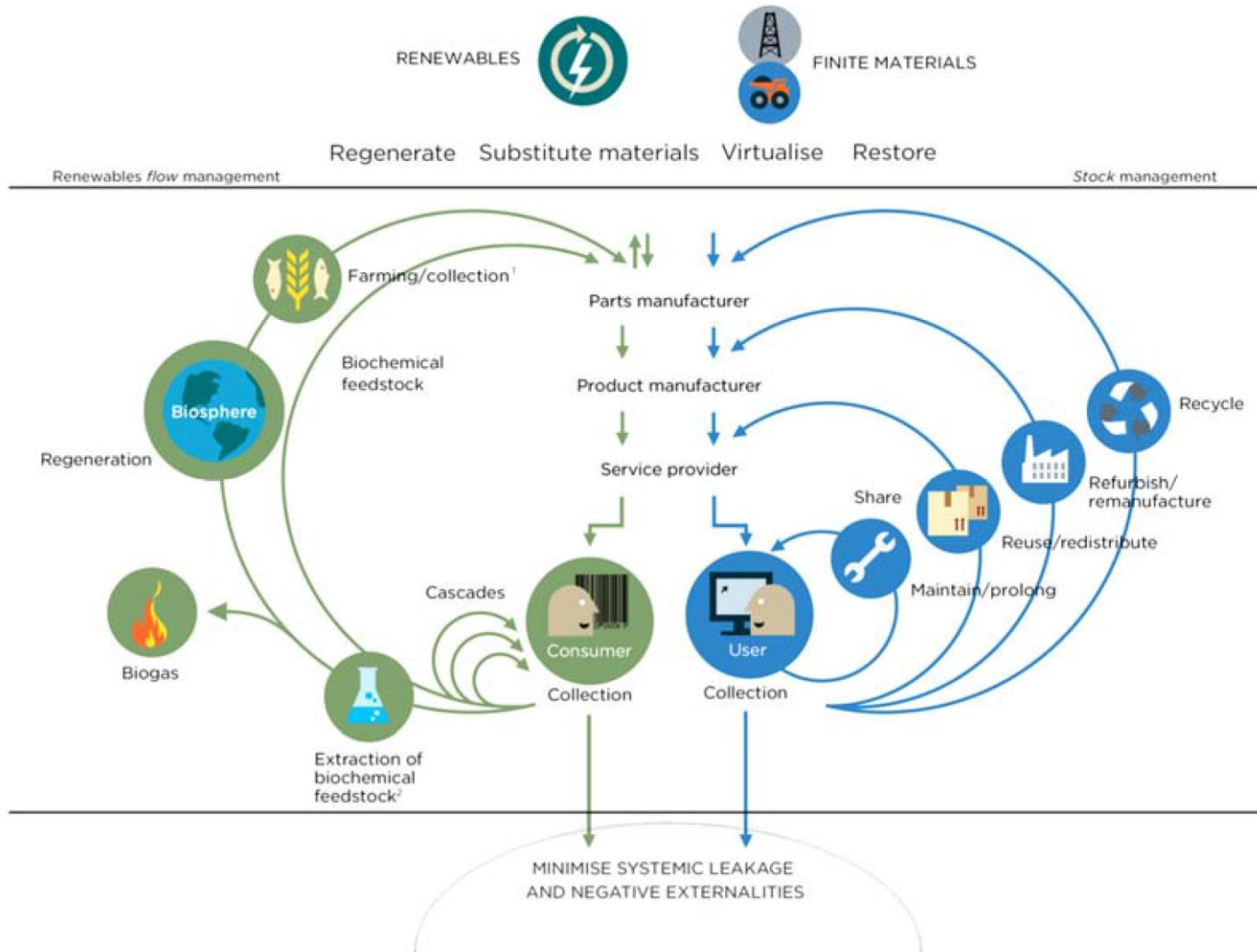


BIOLOGICAL MATERIALS

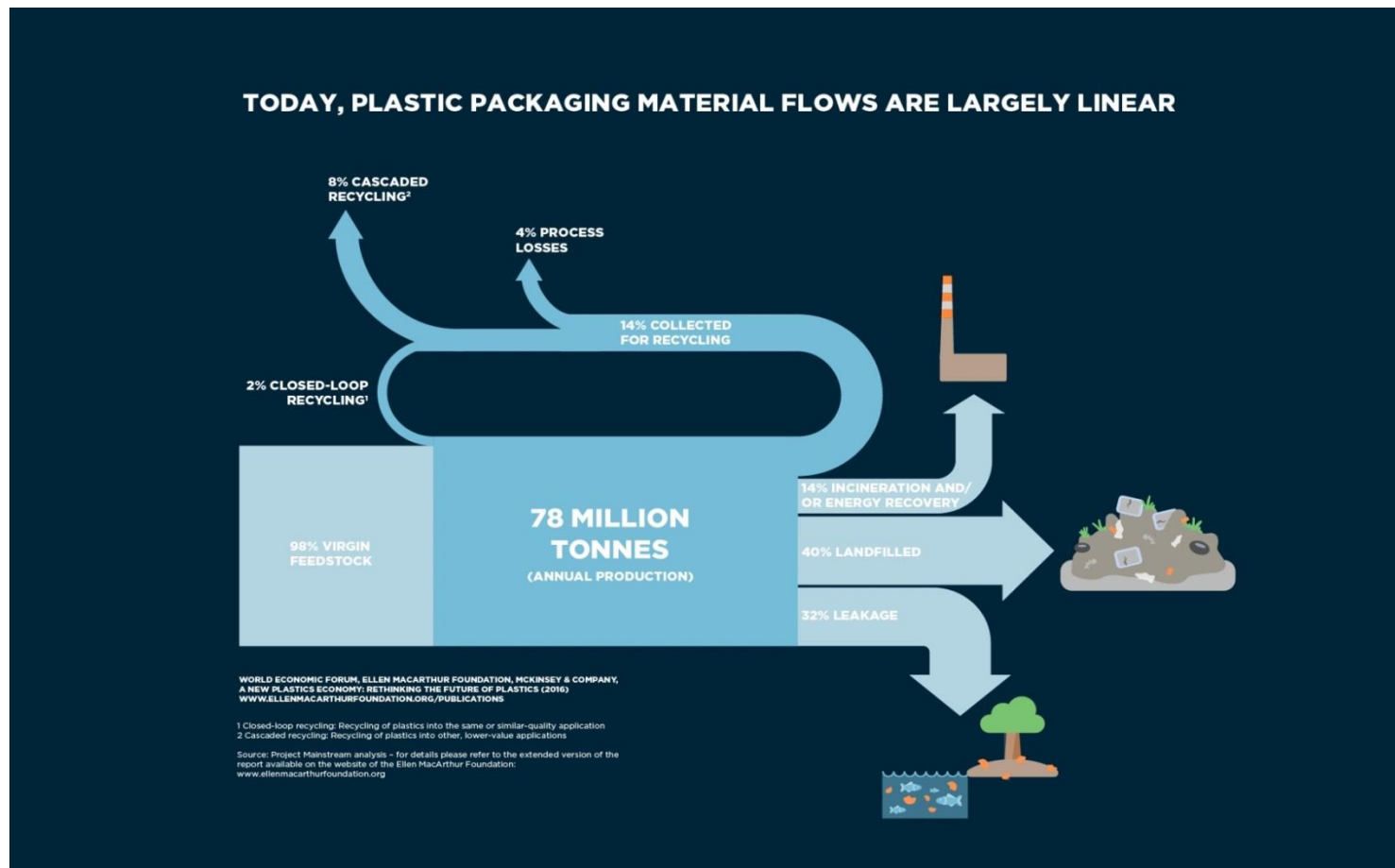
TECHNICAL MATERIALS

ENERGY FROM RENEWABLE SOURCES

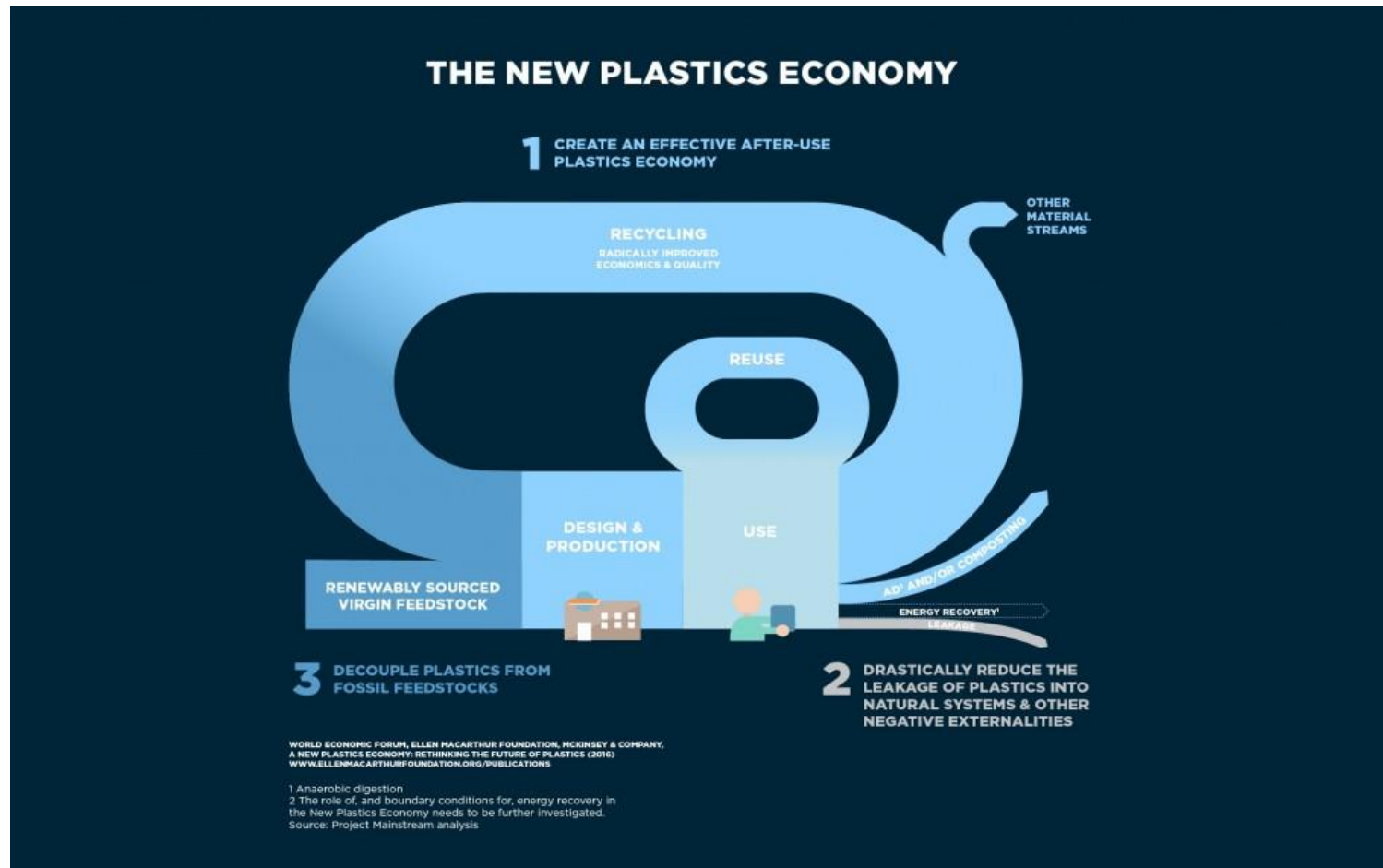
The recycling society



Plastic packaging flow diagram



The new plastic economy



Plastic packaging: redesign, reuse, recycling

Three strategies to transform the global plastic packaging market



Redesign of plastic packaging

30% of plastic packaging needs fundamental redesign before it can be reused or recycled





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Modulated fees for plastic packagings based on sortability and recyclability

Introduced in 2018:

- Segment A (sorting and recyclable packagings from C&I):
179,00 €/t
- Segment B (sorting and recyclable packagings from household separation and collection): **208,00 €/t**
- Segment C (non sorting/recyclable packagings on the basis of current technologies): **228,00 €/t**



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Thanks for your attention



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