



### **Program**

- Who is Fost Plus?
- BI & Fost Plus today.
- How will BI impact our future?
- Building the future on lessons learned.
- How did we get to where we are?



# **FOST PLUS**

Who is Fost Plus?

System

Results

Information and reporting



### Fost Plus - Who?

- Non-profit organisation.
- Founded in 1994 on a pro-active voluntary basis of the private sector.
- Goal: Offer a global and durable solution to the management of household packaging waste
- 1997: Cooperation Agreement between the three regions concerning recycling and prevention of packaging.
- Fost Plus takes care of the legal obligations (obligation to take) back and inform), regarding household packaging waste, of the enterprises who have chosen to contribute (= members).
- Accredited by the Interregional Packaging Commission (= regional authorities) for 5 years (2013).



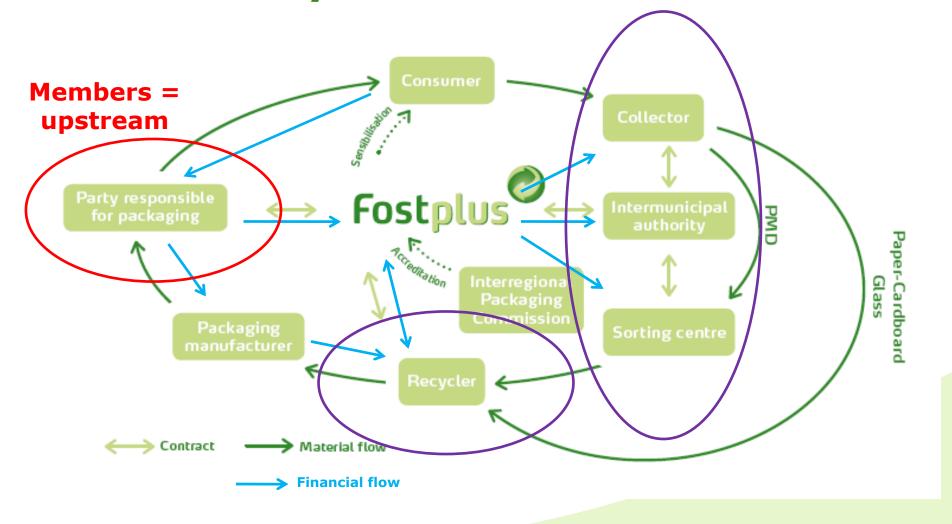
### Fost Plus -System

- Mission: to promote, to coordinate and to finance the collecting, sorting and recycling of packaging household waste in order to achieve the recycling (80%) and valorisation (90%) objectives prescribed by the Belgian law.
- Collaboration between private sector (industry), consumers, local authorities, intermunicipal authorities and recyclers.
- Throughout the activities of Fost Plus, 2.500 direct or indirect jobs have been created



### Fost Plus -System

# Collecting, sorting and recycling = downstream







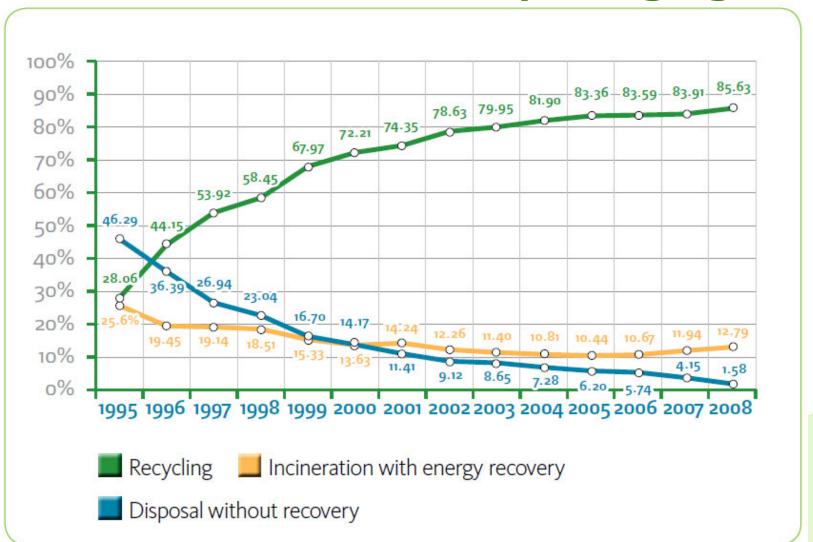


### Fost Plus -Results (2008)

- 5 644 members
  - ⇒ 730 kT household packaging;
  - ⇒ 92% of the Belgian market;
  - ⇒ Financial contribution: 67 millions EUR (or less then 7 Euros per inhabitant).
- 43 millions of Euros income from materials.
- 101.7 mio EUR operational cost (collecting, sorting and recycling).
- 117 kg/inhabitant collected.
- 93,0 % of recycling (697kT).
- 96,6 % of valorization (705kT).
- 850 000 T CO<sub>2</sub> avoided.
- 95% of the population participates actively.



### Treatment of household packaging.





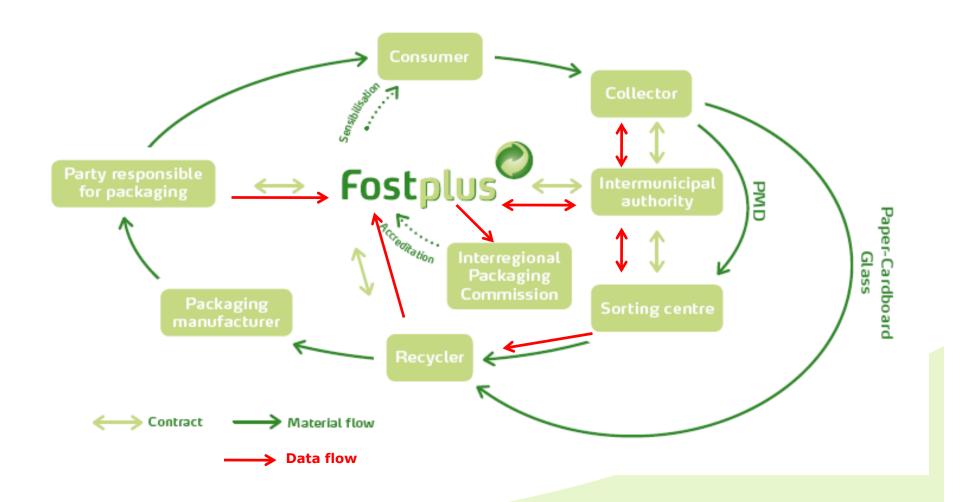
### Fost Plus - information and reporting

#### Information = our business:

- Exchange of information between the partners (data flows);
- Processing operational data;
- Invoicing based on collected data;
- Obligation to inform the regional authorities about the collected data and the recycling results.
- Reporting to management (inside) and partners (outside).
- Reporting to support operational processes versus management reporting.



### Fost Plus - data flows





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### Fost Plus – Business value of BI

### Reporting

- Legal compliance
- Monitoring operational processes
- Management reporting (scorecarding, ...)
- Internetservice to our partners

# Data mining/analysing

- Controlling quality of the data
- Identifying trends
- Examining/explaining evolutions
- Forecasting
- Analysing risks





• Quality of the data

### Monitor



- Forecasting
- Analysing risks

### **Understand**

- Legal compliance
- Management reporting
- Identifying trends
- Examining/explaining evolutions



# FOST PLUS & BI

Where are we now?



### Fost Plus & BI – design

Operational Data Users datasources warehouse ETL upstream internal Internet Application server, content store, database, ... external downstream



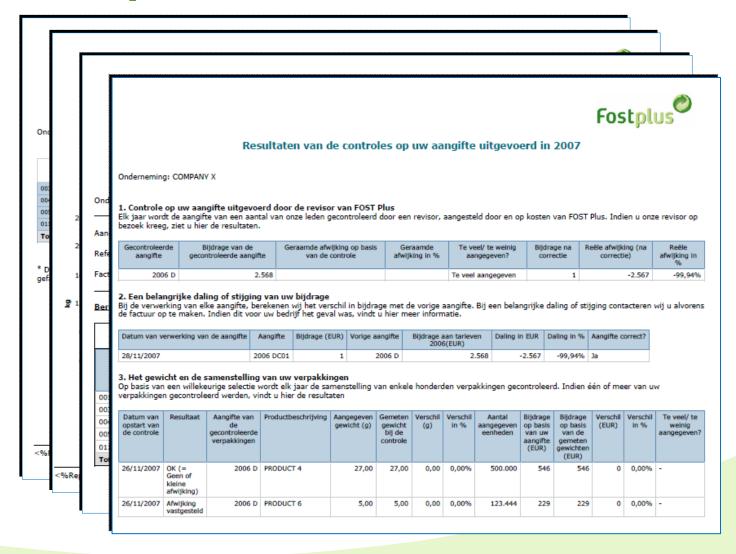
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### BI upstream – external users





### BI upstream – external users





## BI upstream – internal management reporting



#### Use of the different declaration systems and supports.

Active members, most recent processed declarations

Declaration system	# members	KG (one-way)	€ 2008	€ 2009
Turnover	2.596	27.968.060	2.384.056	1.925.254
Detailed declaration	1.129	457.250.223	44.719.816	35.785.996
Simplified	1.126	29.491.172	2.236.691	1.800.042
Wine and alcoholic beverages	369	53.775.793	1.716.274	1.276.953
Service packaging per material (sv001-sv019)	217	16.318.770	1.270.869	1.020.614
Simplif.+ service packaging per material (retail)	20	54.428	7.426	6.084
Press & publishers declaration	20	147.044	17.773	14.491
Service packaging per element (sv1-sv55)	12	482.593	50.717	41.235
Wine and alcoholic beverages + product cards	5	5.252.438	161.183	119.072
Packbase - on hold	2	133.898.094	12.157.713	9.733.451
Total	5.496	724.638.616	64.722.517	51.723.192

Support	# members	KG (one-way)	€ 2008	€ 2009
Web	2.908	39.404.358	3.286.840	2.653.886
Papier	1.983	126.646.932	7.610.551	6.016.091
PACKBase	605	558.587.326	53.825.126	43.053.216
Total	5.496	724.638.616	64.722.517	51.723.192

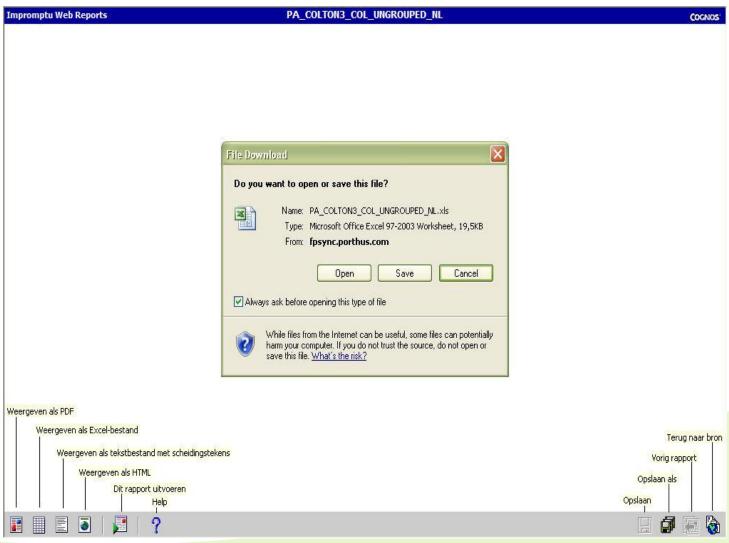
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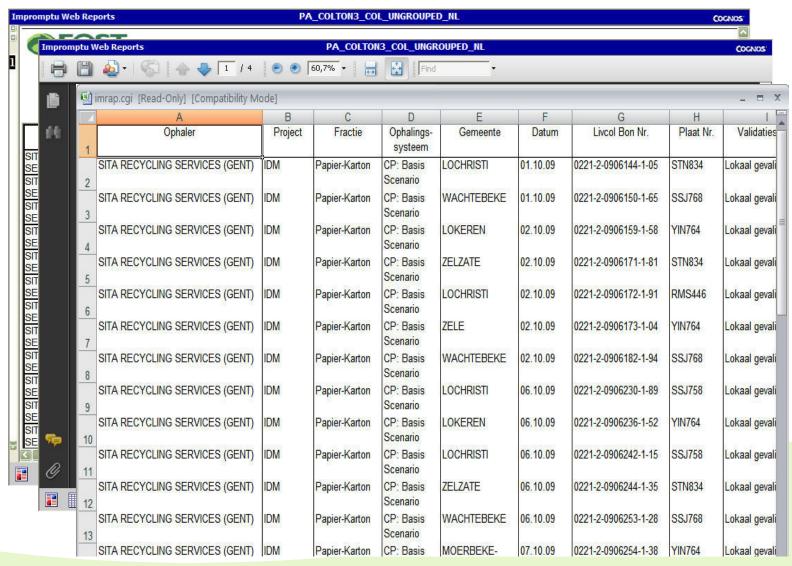
### BI downstream - external users





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### BI downstream - external users



Excel



# FOST PLUS & BI

Our future



### **Future perspective: BI 2.0**

- Relate BI tot the company strategy and integrate it in the global architecture (EA).
- Validate the business value, make BI more visible in the company.
- Integrated approach: consolidation upstream and downstream
- Enlarge the target group:
  - All departments of Fost Plus (Finance, technical, ...);
  - Consumers/citizens;
  - All partners (approx. 6000).



### **Future perspective: BI 2.0**

- Intensify and stimulate the use of BI:
  - Strengthen the involvement of the management through extended management reporting and direct use of the BI tools.
  - Push the information to the users (distribution via email, dashboard, ...)
  - Expand BI as a service to our partners;
  - Develop simplified data models to achieve buy-in of the users.
- Introduce BI in Business proces management: measuring waste in processes in order to optimize them.



# FOST PLUS & BI

A future based on ... the following experiences



### **Benefits**

- More effective verification of the data (by Fost Plus).
- Higher quality of data.
- Identification in an early stage of upcoming changes in use of packaging.
- More accurate budgetting and forecasting.
- Flexible monitoring of operational processes.
- More efficient collaboration with our partners.
- Better services to our partners.
- Userfriendly and costefficient reporting. Business specialists make their own reports and do their own data mining.



### **Lessons learned**

- "Think big, start small but keep thinking big".
- Integrate BI in strategic thinking.
- Make BI and its business value visible and tangible in the company.
- Choose between a top down <> bottom up implementation
- Create 'quick wins'.
- Know your source data.
- Buy-in of the users is crucial: coach the users (tools & data knowledge).
- Incremental scaling of the hardware: grow along with the BI requirements.
- Keep the BI environment 'alive'.



# FOST PLUS & BI

How did we get to where we are?



### Fost Plus & BI - history

- Before 2001:
  - Scattered data storage;
  - SQL queries on operational data;
  - Some reporting in applications (f.e. Oracle Reports);
  - Excel;
- 2001: Strategic decision to create a BI environment:
  - Dedicated databases filled via ETL.
  - Reporting tools.
  - Analysing tools.



### **Fost Plus & BI - history**

- 2002: Setup BI project:
  - Request for proposal Technical architecture;
  - Evaluation proposals;
  - Decision: Cognos BI Suite.
    - > High level of integration;
    - > Diversity of enduser facilities;
    - > Wide range of services;
    - > Web & client/server.
  - Partners:
    - > Numius (formerly known as H&C)
    - > Valoris
    - > iPerform



### **Fost Plus & BI - history**

• 2002-2003: Implementation (iterations).

- Since 2003:
  - Maintenance releases.
  - Preferred partner: Numius



# FOST PLUS & BI

Our conclusion



### Why BI?

- "Single point of access to the data."
- "Single version of the truth."
- Better understanding of our business.
- Better operational efficiency.
- Flexible and costefficient reporting.
- New services to our partners (e-servicing).
- Better insight in our performance through KPI's.

Information ⇒ knowledge and insight ⇒ benefits



## Don't waste your data!

# Turn them into knowledge and value.

Fost Plus = smart recycling



### www.fostplus.be

