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# **Product** Open Data

Status - 17/07/2013

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# Free access to product data

product-open-data.com



La liberté guidant le peuple, Eugène Delacroix, 1830 redesigned by Jessica Dere

## Current Status 13-07-2013

- POD Official supporters : INC, 60 millions de consommateurs, Etalab (data.gouv.fr)
- POD database users :
  - OpenDataSoft (pod.opendatasoft.com)
  - LSA (coming soon)

#### • POD facts :

- 2 millions of GTIN codes collected (including 1 million of high tech products provided by icecat.fr)
- 600 000 products with a brand and owner assigned
- 350 000 GCP (prefix codes)
- 5 000 brands (managed manually)











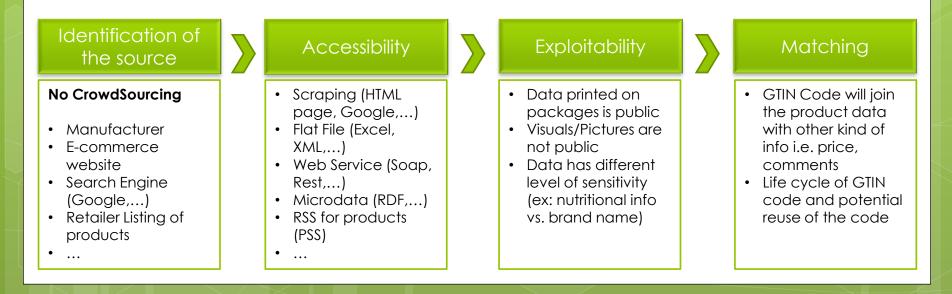
\* http://ec.europa.eu/food/food/labellingnutrition/foodlabelling/proposed\_legislation\_en.htm

## **Global approach**



- POD must belong to an organization assuring the neutrality (Manufacturers vs Consumers) and free access to product data
- No CrowdSourcing ! Product data must be provided by manufacturers: these data are already stored in their database and used to print packaging.
- GS1 should be the leader of Product Open Data movement because of its product expertise, international presence (150 countries) and critical role in the barcode registration process.
- POD will continue to use e-commerce websites to prevent manufacturers from refusing to provide product data. The core idea is "Product data should be available to public, rather than being restrained by manufacturers".
- POD is lobbying government to pass a law requesting manufacturers to publish a free numeric catalogue of their products.

- POD project follows a very simple guideline: product data has to be provided by manufacturers because the information is already in their database and printed on packages.
- A simple flat file (Excel, XML,...) is enough to publish a numeric catalogue (list of their barcode + data printed on packages).
- Potential resistance from manufacturers:
  - Arguments about Financial issues (Cost of Website upgrade, Microdata implementation, web service,...)
  - Arguments about technical issues (Flash website, use of a CMS,...)



# Sourcing



## **Data Quality**



Quality issues can be detected by using the following steps:

- **Step 1**: Check code validity by verifying the last digit following the GS1 rule www.gs1.org/barcodes/support/check\_digit\_calculator
- Step 2: Check if the first 3 digits are approved by GS1 by using the following prefix list (ex: there's no barcode starting with 2) www.gs1.org/barcodes/support/prefix\_list
- Step 3: Verify first 3 digits: code for countries vs. books/publications
- Step 4: GEPIR is a repository of the manufacturers' info provided by GS1. First 6 to 10 digits are assigned by GS1 to the manufacturers (ex: products starting with 0004900 belongs to Coca-Cola company) gepir.gs1.org/v32/xx/gtin.aspx
- Step 5: GTIN code can be reused for the following reasons:
  - New Product www.gs1.org/docs/idkeys/GS1\_GTIN\_Allocation\_Rules.pdf
  - Seasonal offers (Christmas, Summer, Valentine,...)
  - Special offers:
    - Apply on offers of additional value (ex: 1 liter + 20% free needs a new GTIN code)
    - Apply on offers of giveaways (ex: : 6 bottles of water + 2 free)
    - Others

### Use case #1





#### Purchase Intelligence

- Barcode is an unique identifier for products and can be scanned by smartphone apps
- Consumers will have supporting tools to help them make responsible choices upon purchase, as they are equipped with real time information about Heath, Nutrition, Environments, Human Rights...etc.
- Consumers can easily access other consumer' comments and opinions by using the barcode (ex: "what do you think of 321212456545 ?")

Smartphone apps with barcode scanner engine will be the "Product GPS" of tomorrow - will help consumers to make informed decisions upon purchase.



Health & Nutrition



Environment



Religion & Moral values



Human rights



Pricing & benchmark

#### Use case #2





#### Media

- Media publishes news about products, brands or industries can use barcode as a communication channel
- Searched by GTIN is a new way to access all the concerning published articles
- Different elements can be displayed when products are scanned, in addition to product data:
  - Published articles
  - Information of brands and manufacturers
  - Advice on product usage, related subjects,...
  - Ads (financial purpose)

Barcode (EAN / UPC) can be used as a new communication channel – 'product speaks for itself'



### Use case #3





#### Supply Chain & Logistics

- Products are collected by volunteers of humanitarian organizations
- In face of challenges from Supply chain & Logistics (storage, transportation, distribution,...)
- French Government requires reporting of nutrition details
- Volunteers enter data into ERP system (using barcode hand scanner):
  - "Collect" data (what, where, when, how much,...)
  - Product data (name, brand, weight,...)
- Insufficient manpower to input all the details of product data
- Need to use international system for Product Classification

Volunteers should only have to deal with scanning GTIN codes.















#### Selective sorting of waste

- Each city has different specific rules for sorting of waste based on the capacity of the local recycling factories
- Sorting rules are based on the contents or different types of packaging materials (Carton, Plastic, PET,...)
- If the selective waste sorting is not done properly, all the containers could be rejected
- People need to have real time information to apply the local sorting rules.

# Smartphone will propose apps soon to support proper sorting.



