

# LAVOISIER

## DATA AGGREGATION FRAMEWORK



Nothing is lost,  
Nothing is created,  
All is <xslt:transform>

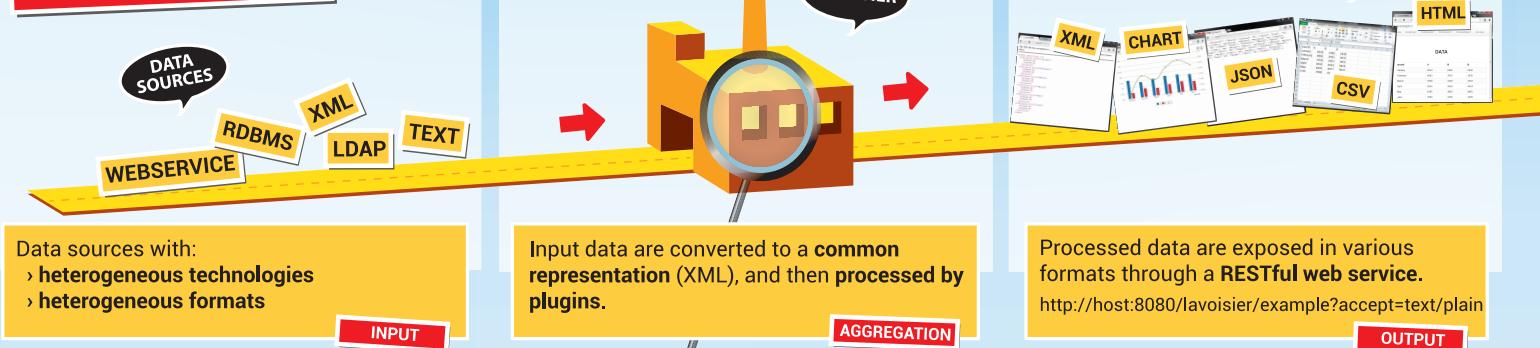


<http://software.in2p3.fr/lavoisier/>

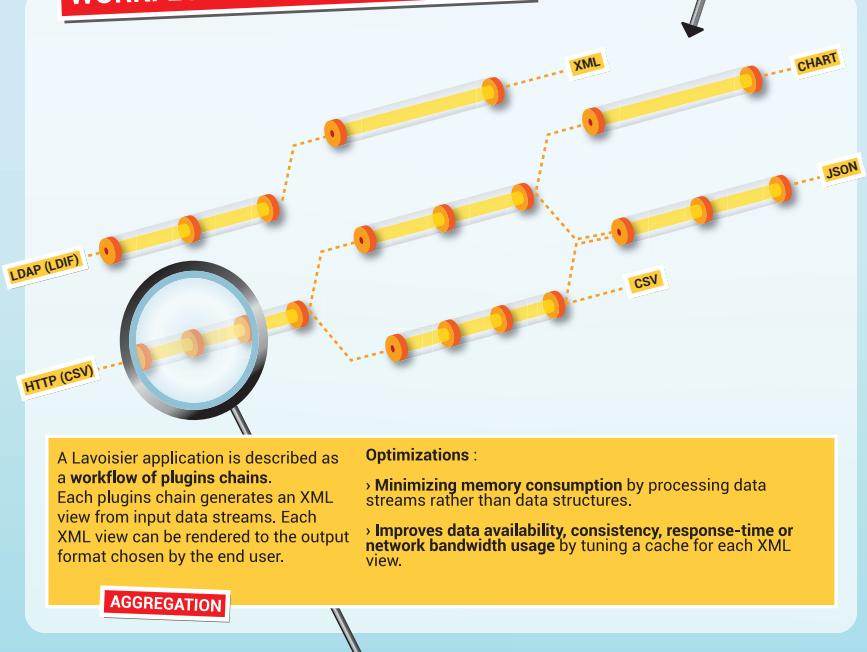
SINCE 2005 !

Collecting, transforming, and querying data  
from heterogeneous data sources

### HOW DOES IT WORK ?



### WORKFLOW OF PLUGINS CHAINS



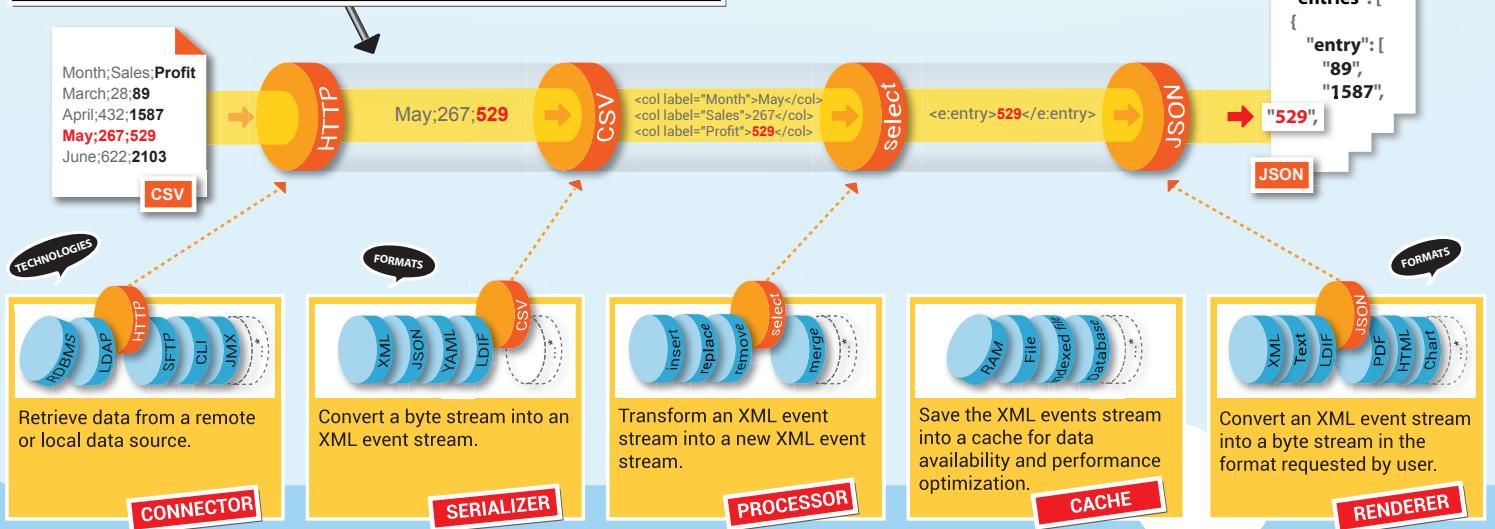
### A PLUGINS CHAIN

```
<view name="example">
  <connector type="HTTPConnector">
    <parameter name="url">http://.../file.csv</parameter>
  </connector>
  <serializer type="CSVSerializer">
    <parameter name="header">true</parameter>
  </serializer>
  <processors>
    <processor type="SelectProcessor">
      <parameter name="namespaces">
        <entry key="r">...</entry>
      </parameter>
      <parameter name="nodes">*/:rows/:row
        /:column[@label='Profit']/text()</parameter>
    </processor>
  </processors>
  <renderers>
    <renderer type="JSONRenderer">
      <parameter name="text-as-pair">false</parameter>
    </renderer>
  </renderers>
</view>
```

Process for generating an XML view is created by chaining plugins.  
 A plugin chain is described in XML format.

CONFIGURATION

### PLUGINS CHAIN EXAMPLE : Extract CSV column «Profit» and render it as JSON



# LAVOISIER

FRAMEWORK D'AGRÉGATION DE DONNÉES



Rien ne se perd,  
rien ne se crée,  
tout se <xslt>transforme

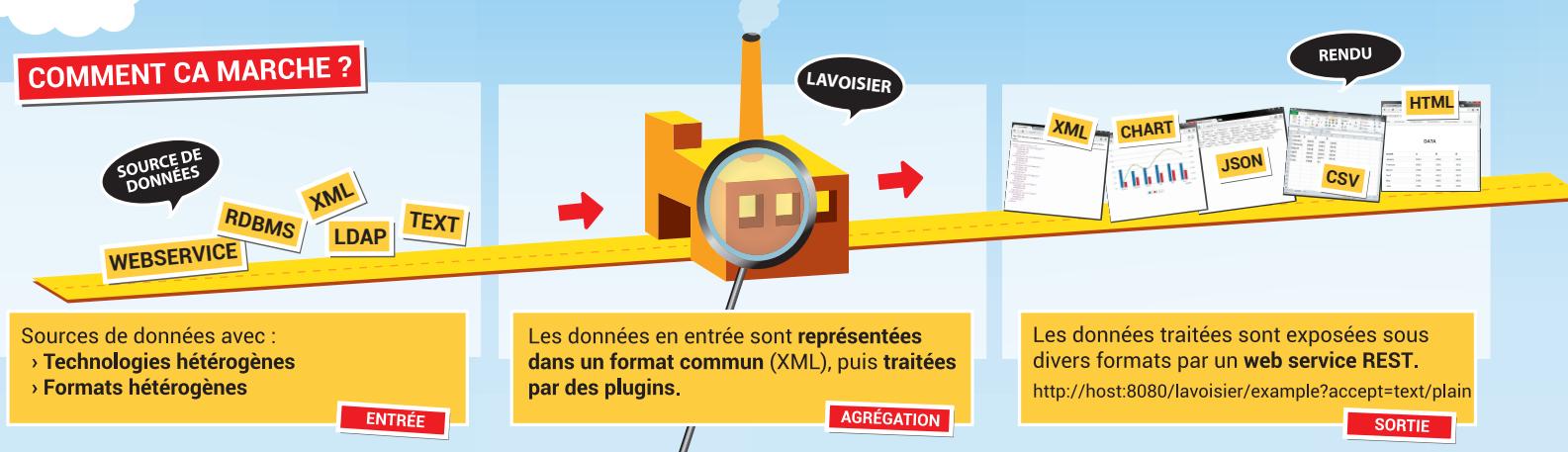


<http://software.in2p3.fr/lavoisier/>

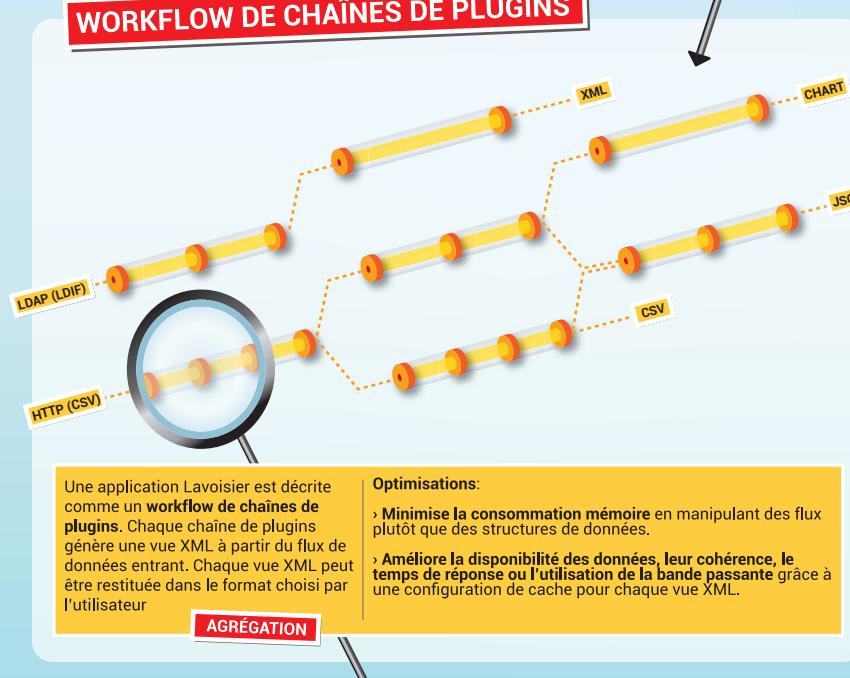
Depuis 2005 !

Collecter, transformer et interroger des données  
provenant de sources hétérogènes

## COMMENT CA MARCHE ?



## WORKFLOW DE CHAÎNES DE PLUGINS



## UNE CHAÎNE DE PLUGINS

```
<view name="example">
<connector type="HTTPConnector">
  <parameter name="url">http://.../file.csv</parameter>
</connector>
<serializer type="CSVSerializer">
  <parameter name="header">true</parameter>
</serializer>
<processors>
  <processor type="SelectProcessor">
    <parameter name="namespaces">
      <entry key="r">...</entry>
    </parameter>
    <parameter name="nodes">*/r:rows/r:row
      /r:column[@label='Profit']/text()</parameter>
  </processor>
</processors>
<renderers>
  <renderer type="JSONRenderer">
    <parameter name="text-as-pair">false</parameter>
  </renderer>
</renderers>
</view>
```

Le processus de génération d'une vue XML est construit en assemblant des plugins. Cet assemblage de plugins se décrit en XML.

CONFIGURATION

## EXEMPLE DE CHAÎNE DE PLUGINS : Extraction de la colonne «Profit» du CSV et restitution en JSON

