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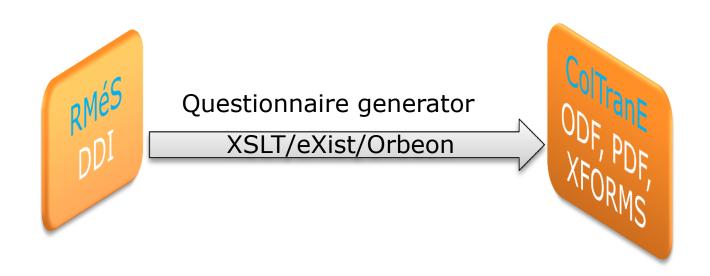


- Brief history of DDI at Insee
- General Architecture
- Principles of development
- Guidelines for users
- Conclusion





- Two major projects involved in the implementation of DDI:
 - ColTranE (transverse data collection for business surveys)
 - RMéS (Statistical Metadata Repository)







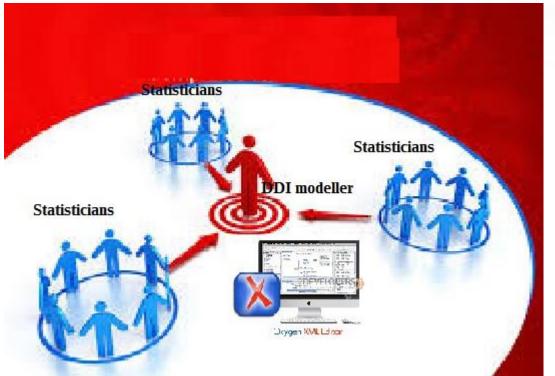
- February 2012: RMéS was a bit lost, too many metadata scattered all over, too many standards, didn't know where to start.
- ColTranE needed to put online its SBS survey questionnaires
- Both projects jumped in. DDI 3.1 was chosen. PDF fillable forms generated.
- DDI files written manually and through XSLT

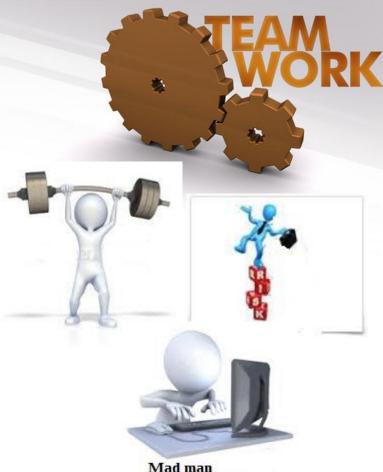




- 01/2014: Decision was taken to move to DDI 3.2 to enhance the representation of grids, inter alia.
- XForms was the output format.
- The questionnaire generator is compliant with 3.2.
- Built, tested and run on Business surveys only.
- DDI still written by hand and through XSLT

Centralised manual approach





- A lot of exchanges with subject-matter experts
- Deep expertise of DDI and a good knowledge of Eno app
 - Time-consuming, high burden
 - Tough balance act, prone to error (references, etc.)

Decentralised approach: Pogues







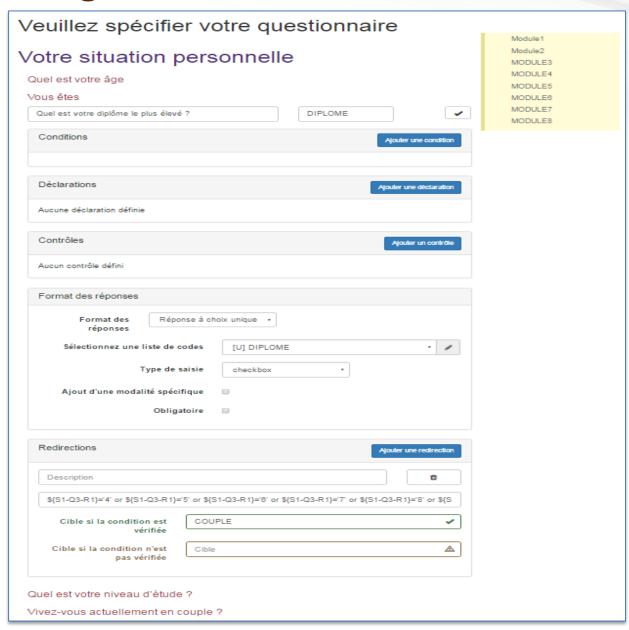
- A GUI (drag-drop) for statisticians
- No IT or DDI background needed
- Automatic consistency checks (references, modelling choices, etc.)
- Integrated with other RMéS components (next slides)
- Supported by guidelines for questionnaire designers (cf later)





- PoC of a questionnaire designer user interface for metadata-driven data collection
- Integrated in RMéS Coltrane IT ecosystem
 - Using RMéS metadata
 - Producing questionnaires
- Target: survey designers
- Focus: visualise in one click, fast iteration

Pogues - GUI





Pogues - Environment

Metadata-driven collection system

Documentation, reporting

RMéS TEAM WOR

Metadata Management Tools

Active metadata: concepts, questions, processes, etc.

pogues

Collection
Management Tools

Data Editing Tools

Collection Instruments

Data Collection

Data Collection

Data Collection

General Architecture



Pogues

Questionnaire

design

Pogues (back-office) ENO

Persistence
Conversion & translation Transformation

Metadata supply RMéS

ENO

Questionnaire
publication

- Developed with Pogues
- Coltrane development already in production
- Development in progress

Pogues – Development principles



Open Source

- GitHub
- MIT Licence

International

- Codes and comments in English
- Internationalised interface
- Data can be in any language

Questionnaire design - Guidelines



- Not a Pogues dedicated user guide, but general DDI best practices
- Issue: how to model properly business objects?
 - Survey designer oriented for sure
 - But also necessary for ENO developers
- Not all the guidelines implemented in Pogues yet.
- Should be considered in the French Statistical System whichever tool is used to produce DDI instances (Pogues or not)
- Submitted for review to the DDI Alliance and to the MC On Standards

Questionnaire design - Guidelines

```
<d:QuestionItem>
           <r:Agency>fr.insee</r:Agency>
       <riD>INSEE-SIMPSONS-QI-102</ri>
             <r: Version>0.1.0</r: Version>
                  <d:QuestionText>
                   <d:LiteralText>
    <d:Text>What are Jay's postal details?</d:Text>
                   </d:LiteralText>
                  </d:QuestionText>
        <d:StructuredMixedResponseDomain>
                  <d:ResponseDomainInMixed>
                   <d:TextDomain>
                     <r.Label>
<r: Content xml:lang="en-IE">House number</r: Content>
                     </r.Label>
          <r:OutParameter isArray="false">
           <r:Agency>fr.insee</r:Agency>
    <r:ID>INSEE-SIMPSONS-RDOP-102-1</r:ID>
             <r: Version>0.1.0</r: Version>
                 <r:ParameterName>
              <r:String>CN1</r:String>
                </r></rr>ParameterName>
               <r:TextRepresentation />
                 </r:OutParameter>
                  </d:TextDomain>
            </d:ResponseDomainInMixed>
           <d:ResponseDomainInMixed>
                   <d:TextDomain>
                     <r.Label>
 <r:Content xml/lang="en-IE">Street name</r:Content>
                      </rLabel>
          <r:OutParameter isArray="false">
           <r:Agency>fr.insee</r:Agency>
    <riD>INSEE-SIMPSONS-RDOP-102-2</ri>
             <r: Version>0.1.0</r: Version>
                 <r:ParameterName>
              <r:String>CN1</r:String>
                </r>
/r:ParameterName>
               <r:TextRepresentation />
                 </r>
</r:OutParameter>
                  </d-Text Domain>
```



Graphical representation

The representation associated with the DDI modelling is as follows

⇒ What are Jay's postal details?	
House number	
Street	
City	

Future Works



Eno

- New output formats (paper, Blaise)
- Publish as Open Source

Pogues

- Additional features (e.g. more complex flow logic)
- Complex questionnaire controls