

# Benefits of using a declarative web portal to make the Additional Protocol declarations - application with the French portal PASTEL

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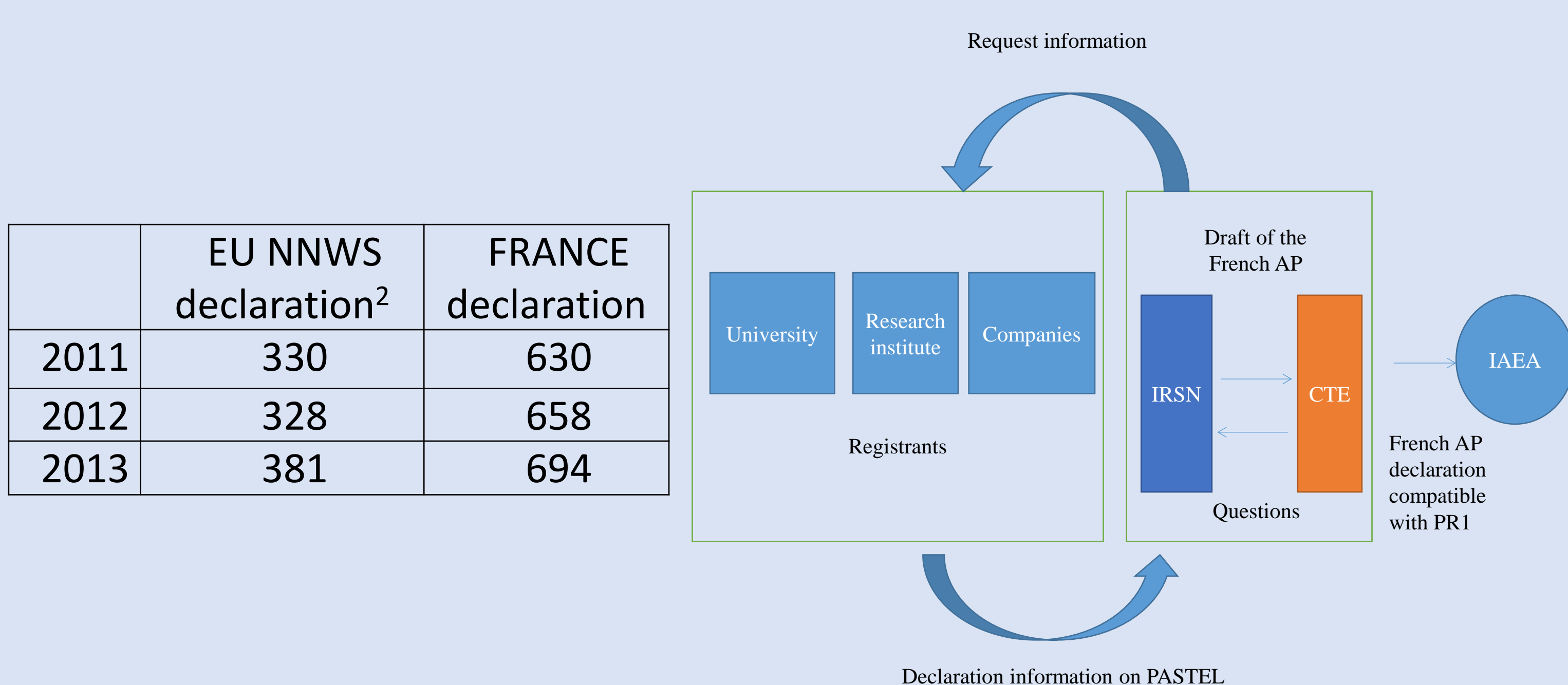
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## ABSTRACT

- France decided to develop an Additional Protocol web portal, PASTEL, to be more efficient and improve AP declaration;
- This portal has many features according to the French processing choices;
- The development of this custom solution allows France to save time and enhance the declaration.

## BACKGROUND

- In order to support IAEA mandates, the French additional protocol provides to report for the activities undertaken by an entity with a NNWS;
- In 2003, EURATOM developed CAPE1 to allow all the EU states to make their additional protocol declaration. Results show that this tool partially responded to the French needs;
- From 2004 to 2014, registrants sent paper registrations. IRSN had to enter declarations, analyze and compile it.



On the left: Comparison between lines registered to IAEA since 2011 to 2013 by EURATOM and France. On the right: French process to generate declaration

## PASTEL OPERATIONS

### WEB PORTAL

As there are a lot of users with various activities, the development of a web portal is properly adapted. Indeed, software installation would have been complex.

### VALIDATION RULES ADJUSTED TO USER MODE AND WORKFLOW

There are three user profiles: Registrant, Administrator and Supervisor. At each step in the workflow, the declaration may have different status. The French AP draft is created through a three stages process before being validated by the French authorities.

### FEATURES DEDICATED TO THE FRENCH REPORTING METHOD AND FACILITATING INPUT

Registrants can make a negative or a positive registration. Although only positive registrations are reported to IAEA, the negative registrations allow IRSN to keep a record of entities which do not have currently AP's activities, but may have in the future.

### ADDRESS DATABASE

There is on PASTEL's address database 1 100 addresses including French and other countries, both have a dedicated table with:

- A unique address typography to make the work of IAEA analysts easier;
- Options to update French entities list through address database.

## CHALLENGES

### DESIGN AND ERGONOMICS IMPROVEMENT

- To improve accuracy of recurrent information for the INFCIRC290/add1 article 2a.i) and 2b. declaration;
- To upgrade the features helping registrants to write their declarations.

### SETTING UP AN OUTPUT COMPATIBLE WITH PR3

PASTEL generates currently two formats of declarations: excel and a .txt format compatible with PR1. In order to support IAEA in its mandate, IRSN is evaluating the possibility to generate documents compatible with PR3 or other document which answer to specific IAEA needs.

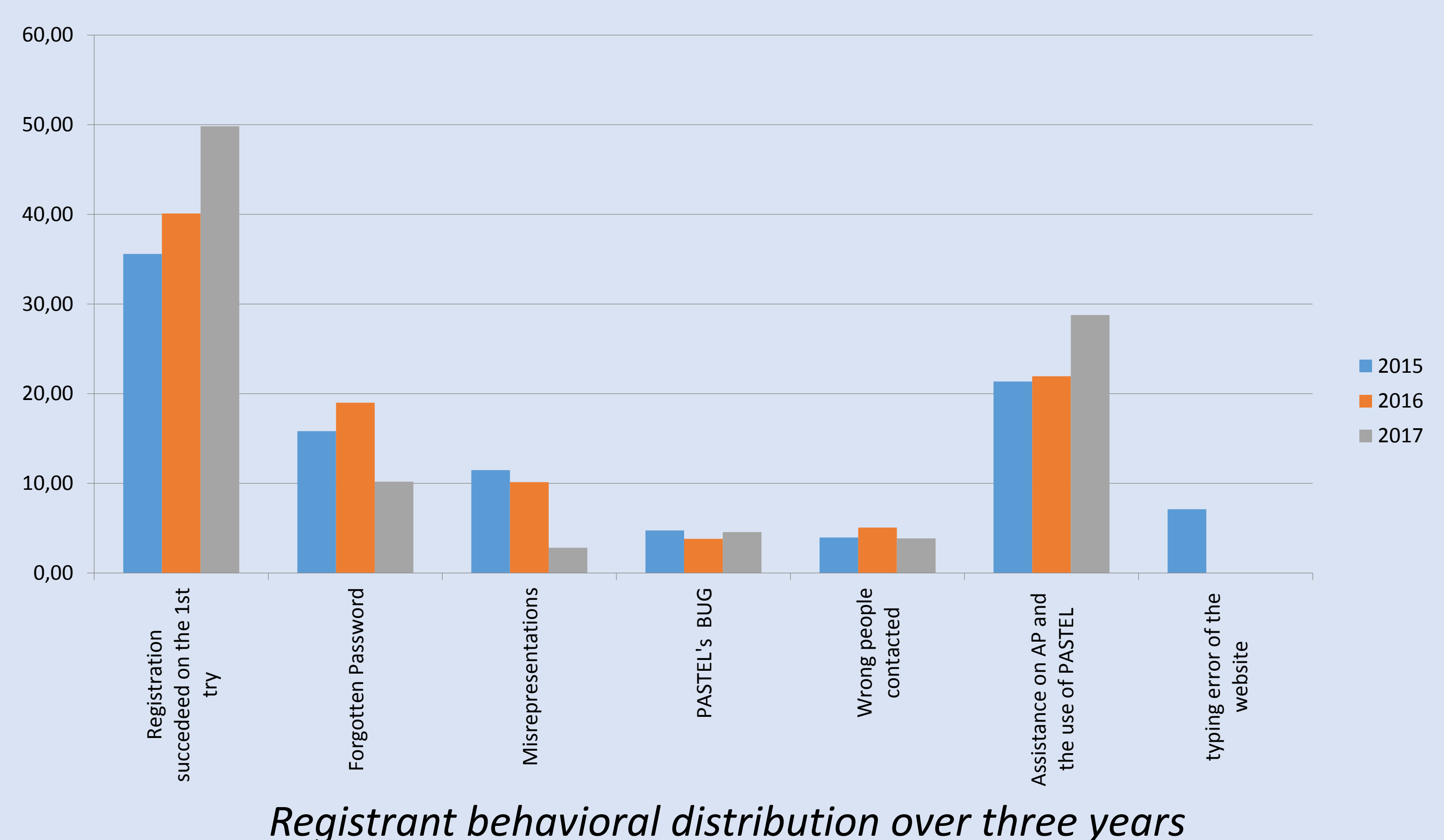
## THREE YEARS FEEDBACK

### SAVING TIME AND EFFICIENCY

PASTEL reduces the time needed to enter registration, analyze and compile it from 180 men-days to 60 men-days. Data entry labor has been replaced by deeper examination with open source cross matching and assistance to enhance the overall quality.

### STUDY OF THE BEHAVIOR OF REGISTRANT

- 🚩 Tipping error, misrepresentations and forgotten password;
- 🟢 Assistance on AP and good registration on the first try;
- 🚩 Wrong people contacted and PASTEL's BUGS.



## CONCLUSION

- France developed a custom solution to enhance the AP declaration. This allows us to:
  - Save time for both registrant and IRSN;
  - Replace data entry labor by examination with open source cross matching;
- Design and ergonomics are important to improve the AP declaration;
- France is evaluating the possibility to generate documents compatible with the PR3 or answering to specific IAEA needs.

## REFERENCES

- 1- P. MEYLEMANS, S. SYNETOS, P. BEUSELING, P. JIRSA, S. CICCARELLO, C. GULEC, C. KOUTSOYANNOPOULOS, W. KILB, P. SCHWALBACH, J. COADOU, W. KOEHNE, W. KAHNMEYER AND P. SZYMANSKI, "Verification of correctness and completeness of operators' declarations by EURATOM", symposium IAEA, Vienna (2014)
- 2- "Report on the Implementation of Euratom Safeguards in 2013"