

The logo consists of the word "oops!" in a bold, sans-serif font. The letters are colored in a gradient: "oo" is blue, "p" is green, "s" is yellow, and the exclamation mark is dark blue. A small blue circle is positioned below the "s".

# *OOPS! - Ontology Pitfall Scanner!*

*An online system for ontology evaluation*

Universidad Politécnica de Madrid  
Madrid, 3<sup>rd</sup> of December, 2014



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- Linked Data, Open Data, Data transparency, etc.
  - Data annotated by means of ontologies → Semantic Web
- Lack of evaluation in models describing data
  - Data inconsistency and incoherency → Lower quality

By 2012, 70% of public web pages will include some of semantic mark-up [Gartner, 2007]

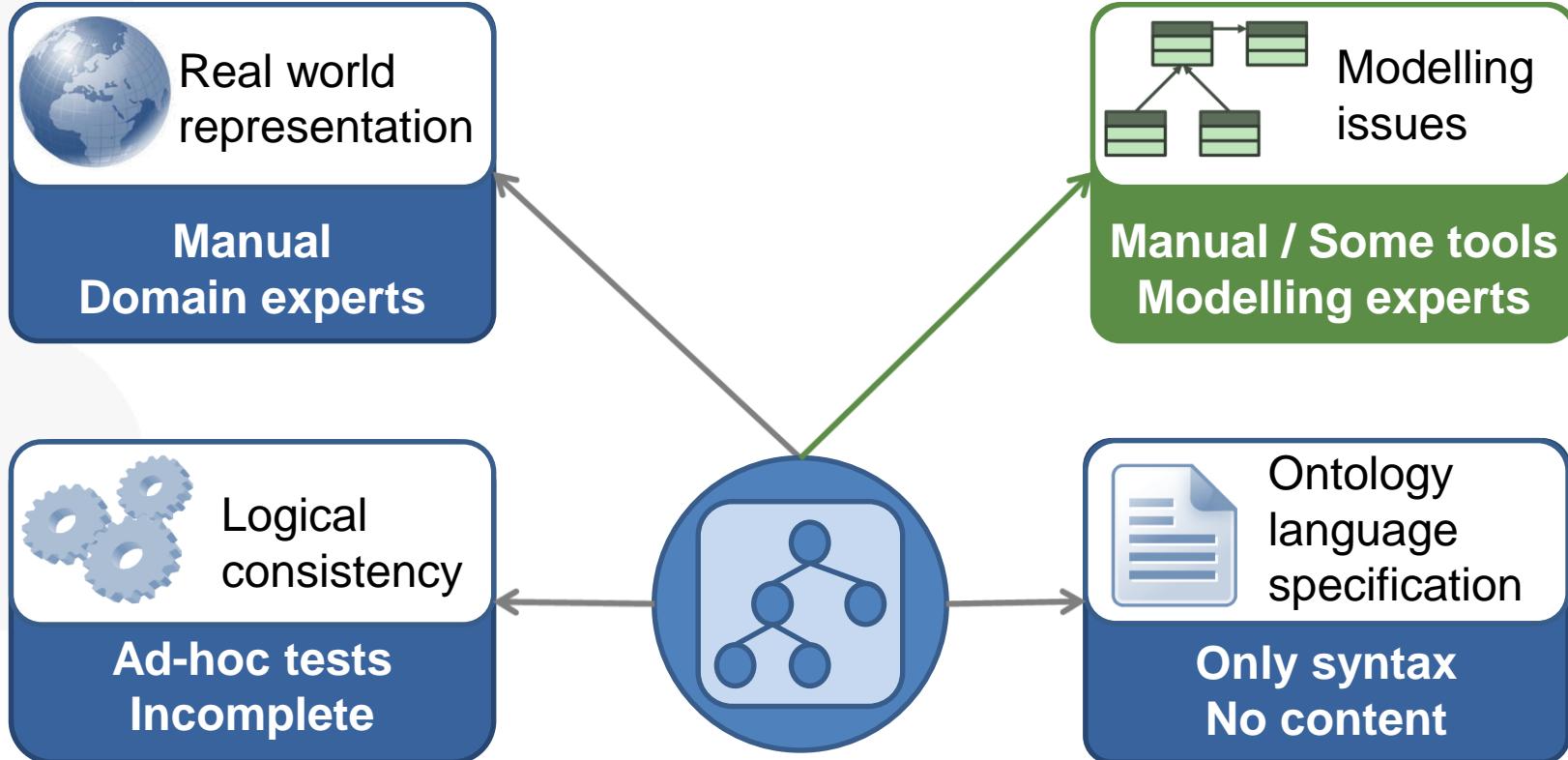
Growth in semantic technologies worldwide: from \$2.1B (2006) to \$54B (2010) [Davies, 2007]

ODI helps unlock £11m for open data innovation in Europe  
<http://opendatainstitute.org/> [2014]

RD& for semantic technology will be \$8.5B worldwide (2010)  
[Davies, 2006]

- Ontology editors
- Semantic based software
- Ontology development
- Examples:
  - *Google knowledge graph*
  - BBC ontologies
  - Open Data portals
    - Government, libraries, museums, health, biology, etc.
  - **Local applications** too: data integration, search, NLP, etc.

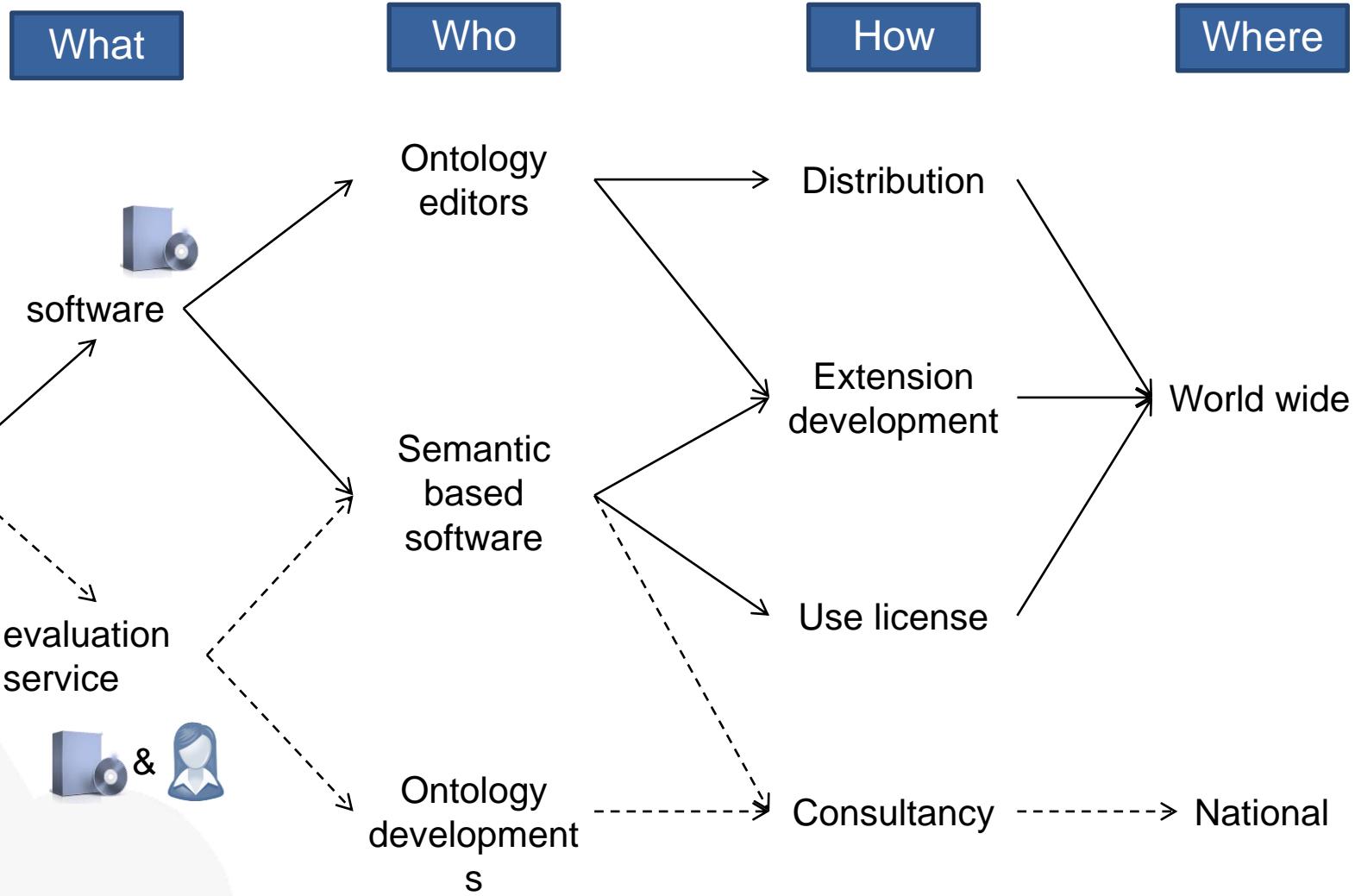
# Current solutions – Some dimensions



- Semi-automatic tool for **ontology evaluation**
  - Available at <http://oops.linkeddata.es>
  - Registered software: M009445/2012
- Ontology editors **independent**
- **Usability**
  - User interface (*feedback*, users' satisfaction test)
  - Web service: Third-party software **integration**
- More automated detections (**x3** and more)
  - Selection, classification, importance levels
- Conformance badges



# Contributing to the semantic technologies field



- Used by developers from more than 48 countries (> 2000 executions)
- Contact and relation with enterprises:
  - Raytheon, SemanticArts, inova8 (no code shared)
  - HoneyWell (contact, interest in local distribution)
- Integration in third-party software:
  - OntoHub, Widoco, SmartCities Ontology Catalogue

Imagen: web access Oct 2013 – Oct 2014. Google Analytics

- *Ontology Engineering Group*  
*(20 years of experience in ontological engineering)*
  - María Poveda Villalón
    - PhD student – Design and development
  - Miguel Ángel García Delgado
    - Software engineer – Development and support
  - Mari Carmen Suárez de Figueroa Baonza
    - Assistant Professor – Design and supervision
  - Asunción Gómez Pérez
    - Full Professor – Design and supervision



# Contact

<http://oops.linkedadata.es>

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 @OOPS<sup>oeg</sup>

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