Guillem Anaïs, with contributions of O. Marlet and G. Bruseker

Session: Search and Learning Application Software Presentations 59th joint meeting of the CIDOC CRM SIG, 52nd FRBR/LRMoo SIG and ISO/TC46/SC4/WG9

24-27 September 2024, Plovdiv, Bulgaria













### What is OntoMatch Game?

Online resource: <a href="https://ontomatchgame.huma-num.fr/">https://ontomatchgame.huma-num.fr/</a>

Git repository: <a href="https://gitlab.huma-num.fr/masa/cidoc-card-game/">https://gitlab.huma-num.fr/masa/cidoc-card-game/</a>

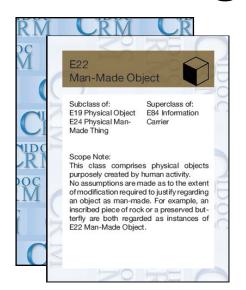
Objective: Ontology (CIDOC CRM and other ontology models)

learning/teaching

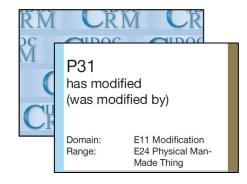
Modality: serious game

Main contributors: A. Guillem, G. Bruseker, O. Marlet, FX. Talgorn

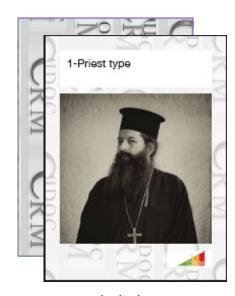
## Starting point: CIDOC CRM Game



Class cards deck



Property cards deck



Instance cards deck



#### Overview of evolution:

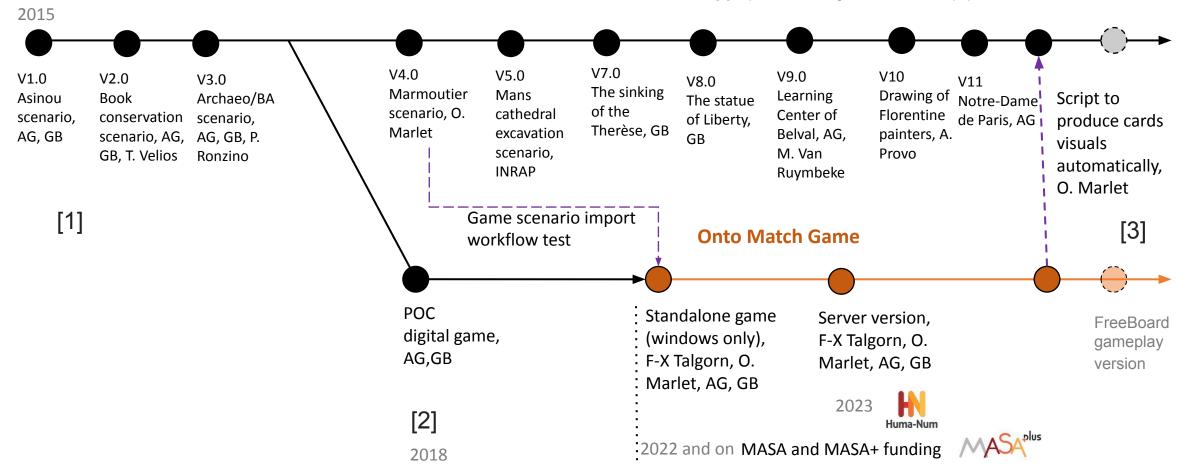
relations to CIDOC CRM Game and versions

**CIDOC CRM Game** 

[1] Guillem, Anais, and George Bruseker. "The cidoc crm game: A serious game approach to ontology learning." The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XLII-2/W5, 2017 26th International CIPA Symposium 2017, 28 August–01 September 2017, Ottawa, Canada. Vol. 42. 2017.

[2] Guillem, Anaïs, George Bruseker, and Nicola Lercari. "Learning through doing: an online game for appropriating ontological modelling methodology." *CAA Tübingen 2018*. 2018.

[3] https://ontomatchgame.huma-num.fr/papercards/

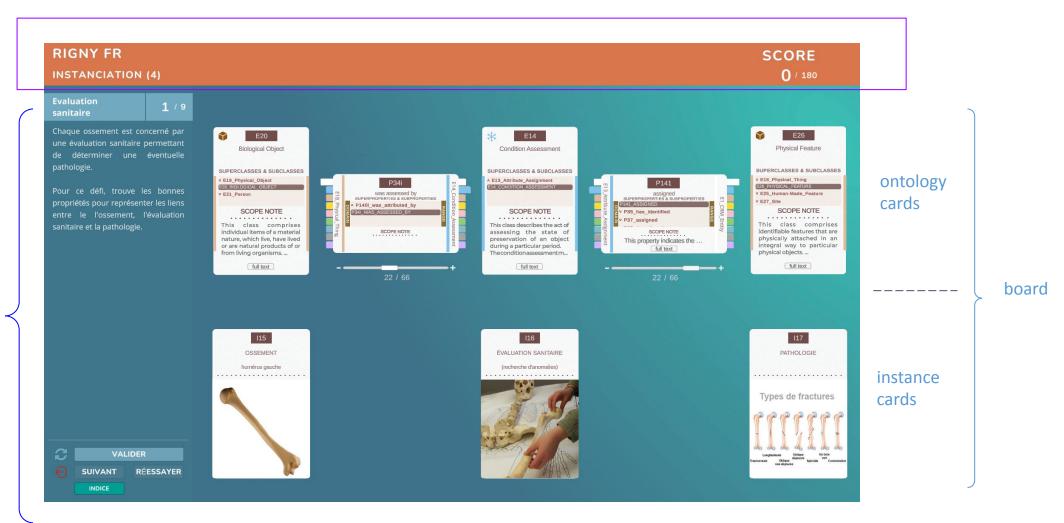


main game interface

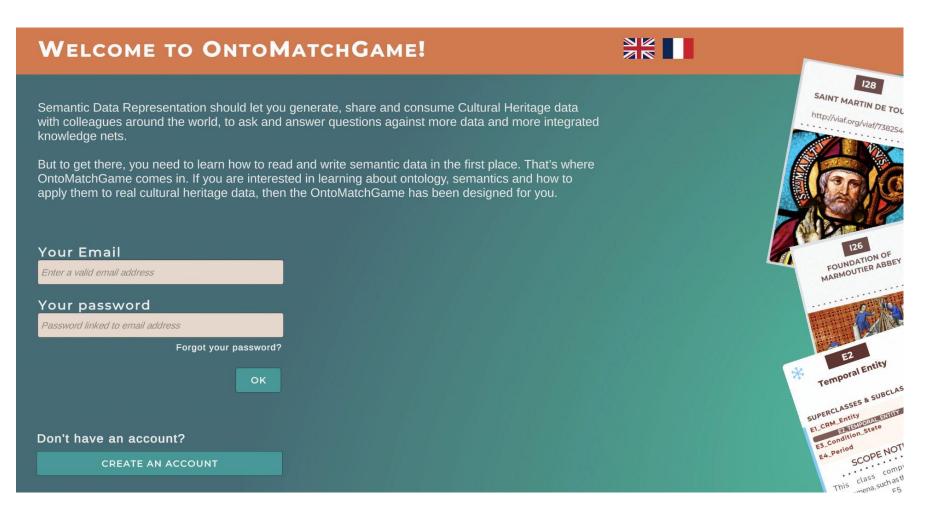
game information:

- -game scenario name,
- -chapter/lesson,
- -score

side panel: game instructions and explanations



game interface - landing page/ login



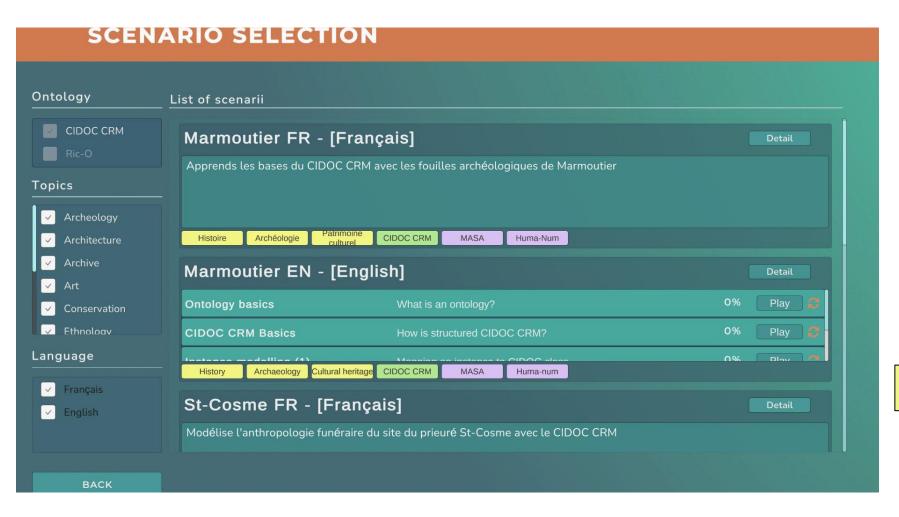
- user login
- user account creation
- language interface setting
- landing page

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game interface - game scenario selection



game interface - game scenario selection



# Scenario search panel

Game scenario >chapters

Scenario key words

#### Architecture

- Database: SQL
- Server: HumaNum server
- Application: Unity (full web version planned)
- Data files:
  - XML (ontology);
  - JSON (scenarii)

#### **Functionalities**

- User login (RGPD)
- Game scenario search by keywords selection
- Ontology models import (xml)
- Ontology models updates following the ontology evolution
- Game scenario import (json)
- Multilingual interface
- Possibility to add the game scenarii in different languages
- Gameplay: mapping exercise
- Score
- Try, Error, Hints
- Cards manipulation

## Future developments

- More CIDOC CRM scenarii to support teaching/learning activities
- · Scenarii with other ontologies: pedagogical material
- Game mode: free board play: pedagogical material
- Card sorting and interaction improvement
- Improving the learning experience (scenario design, hints and documentation): UX/UI and game design

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## Thank you for your attention

#### Onto Match Game presentation

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