

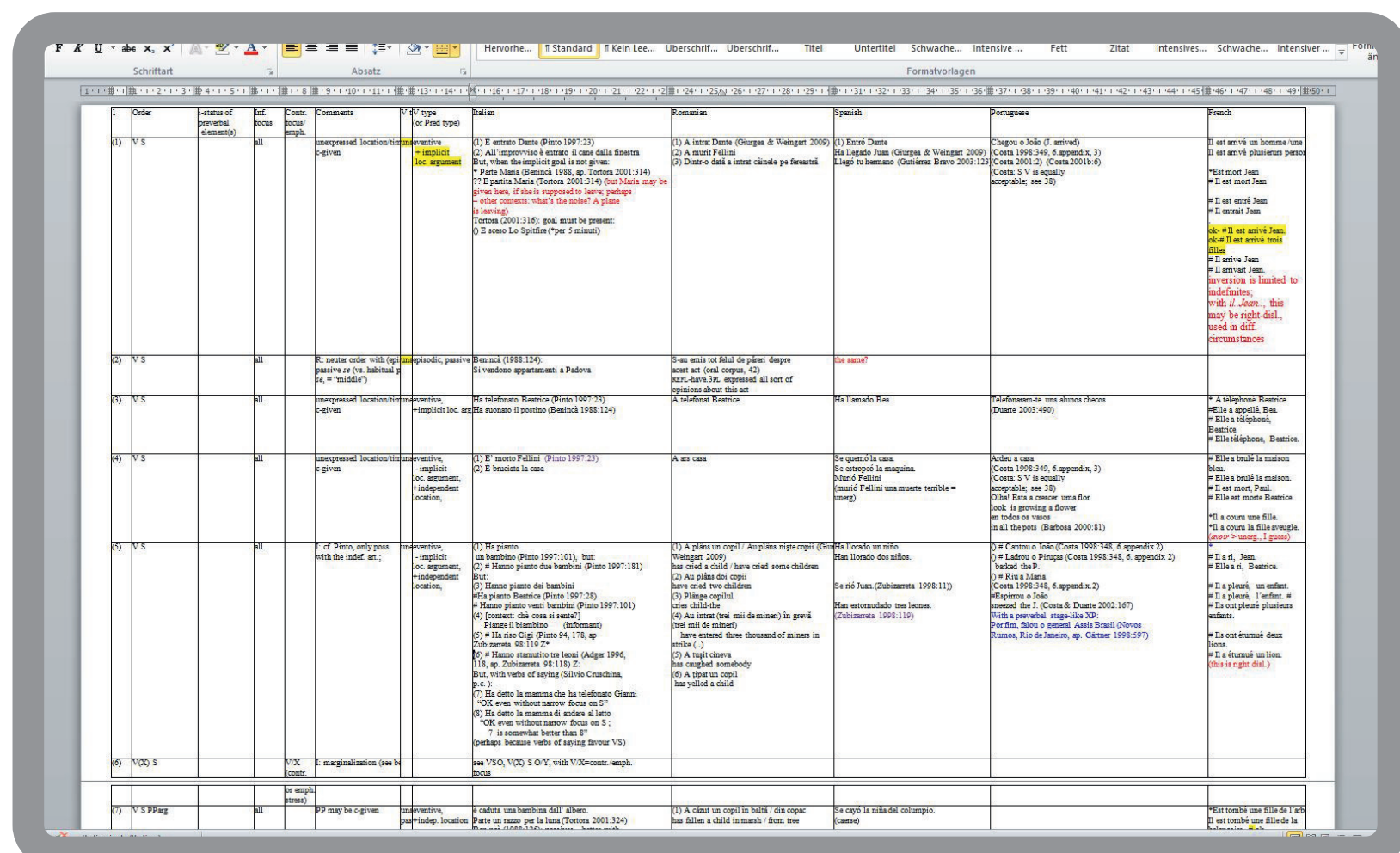


# CORS-O-MATIC

A component oriented web application for linguistic data management based on free software and open standards

## Background

### COMPONENTS OF ROMANCE SYNTAX (CORS)



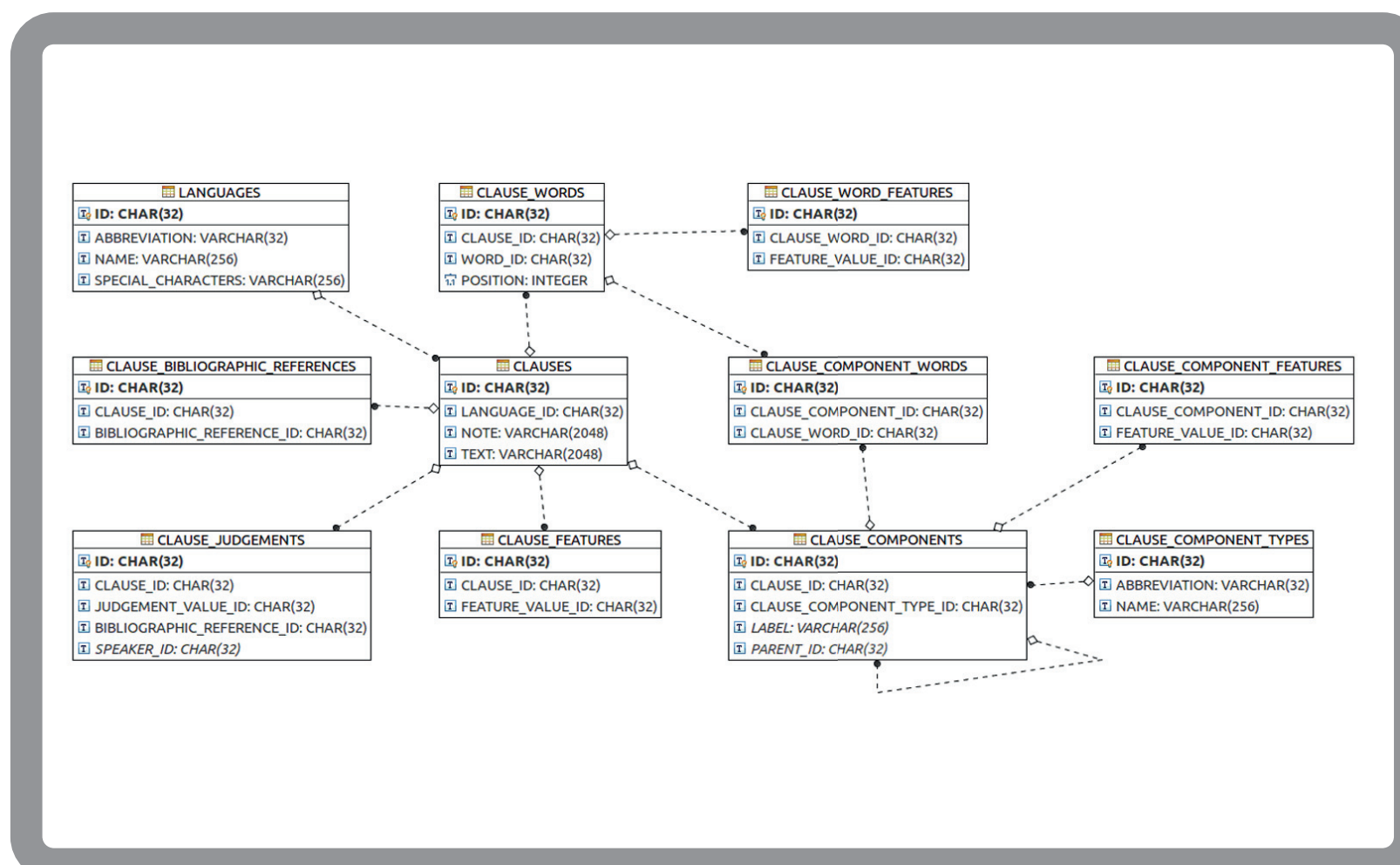
#### Aims of the project<sup>1</sup>

A syntactic analysis within the Minimalist framework of Chomsky (2000 ff) based on parametrized functional categories of the standard varieties of (Peninsular) Spanish, Italian, Romanian, French and European Portuguese for the following syntactic phenomena:

- (A) word order in declarative clauses,
- (B) interaction of word order and information structure,
- (C) left periphery,
- (D) position and order of clitics,
- (E) passive and reflexive constructions,
- (F) non-finite constructions.

**Data collection: Sentences representing the syntactic phenomena TOO big data for MS word table!**

### ANNOTATING SYNTACTIC COMPONENTS



#### Multi-level, theory independent annotation

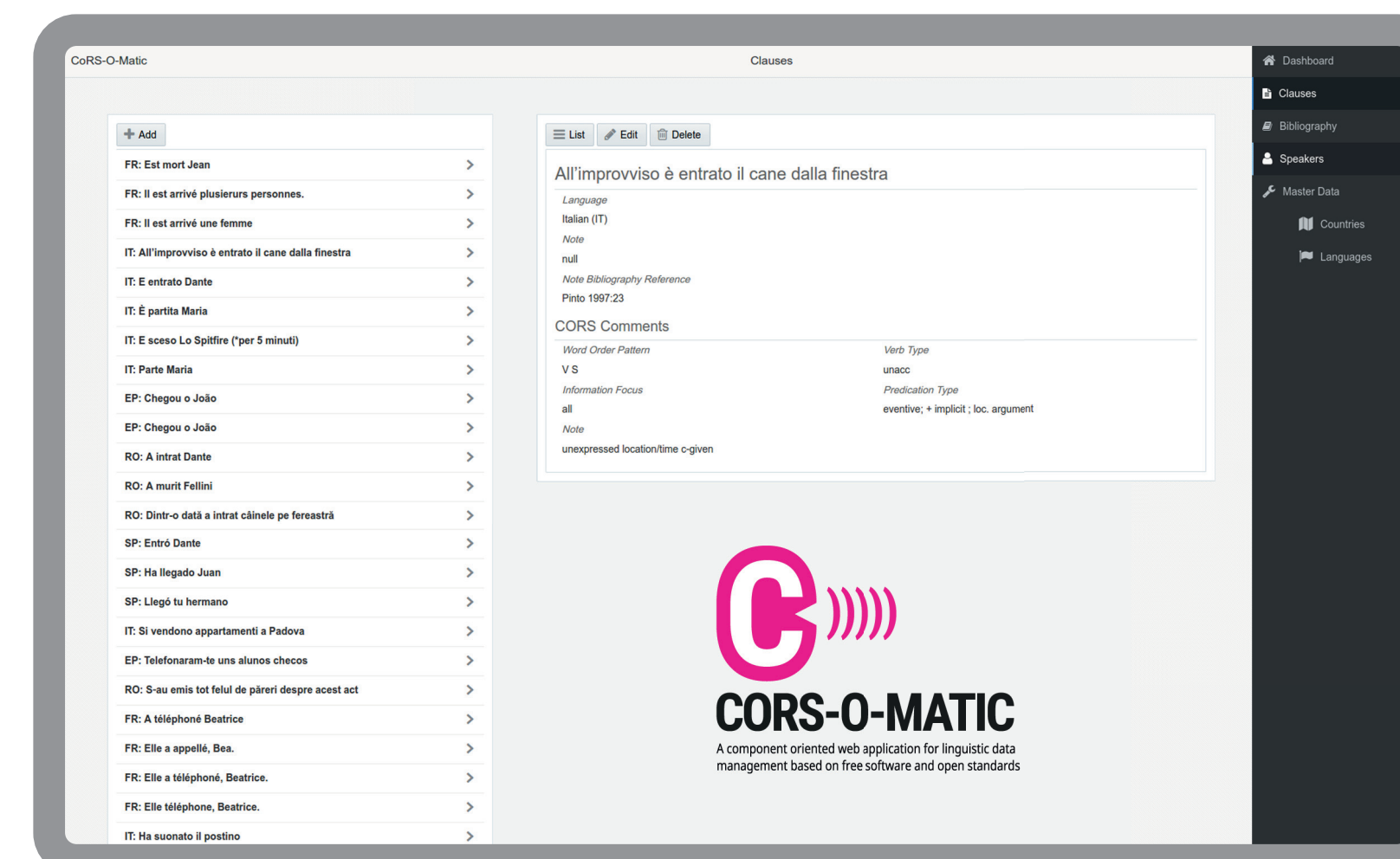
**Free definition of (hierarchical) sentence components:** words, parts of words, phrases, larger constituents

**Free definition of features:** morpho-syntactic, POS, semantic, information structure, speakers judgements with reference to speakers or bibliography

#### Example: Transitive VOS-pattern in out-of-the-blue contexts

- |    |     |    |                                |
|----|-----|----|--------------------------------|
| a. | It. | #  | Ha rovesciato un gatto il vaso |
| b. | Ro. | OK | A răsturnat pisica vasul       |
| c. | Sp. | OK | Se comió el gato un ratón      |
| d. | EP  | #  | Partiu o Paulo a janela        |
| e. | Fr. | *  | A acheté Jean une voiture      |

### CORS-O-MATIC WEB APPLICATION



#### Web application

- Based on free software and the open standard Java EE
- Runs on any operating system supported by Java
- Accessible for any user running a modern web browser

#### Component-based software architecture

Implementation of the software design patterns:

- Entity Control Boundary (ECB)
- Data Transfer Object (DTO)

#### Work in progress

- Identity management
- Headless build (Continuous integration)
- Container-based deployment
- Higher test coverage

## Solution

### COMPONENT-BASED SOFTWARE ARCHITECTURE

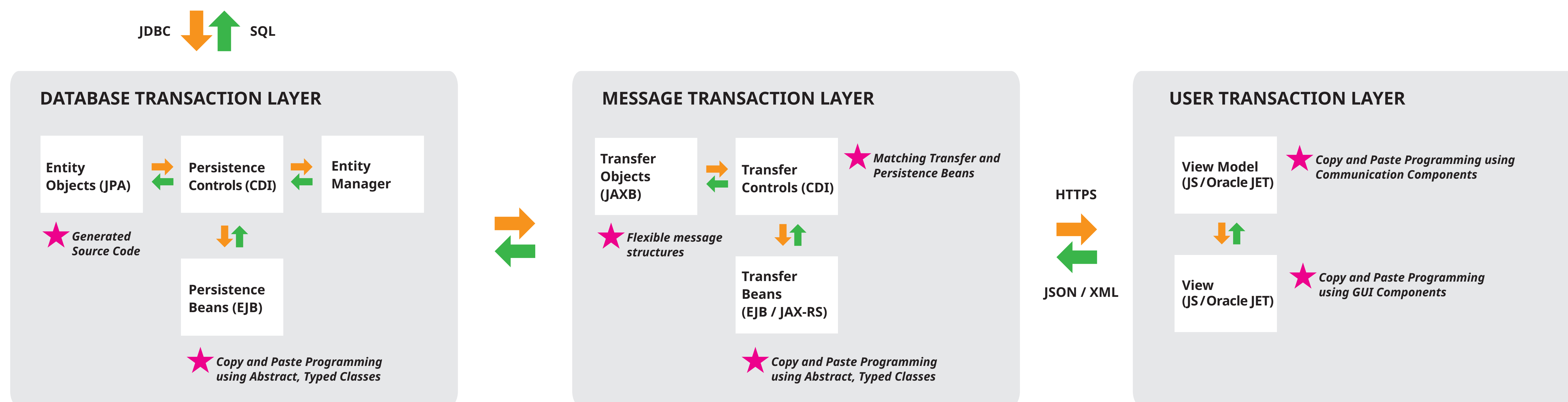
## RDBMS

Relational Database Management System

★ *Optimized UIIDs as PK and FK*

#### ADVANTAGES OF CORS-O-MATIC

- Easy and effortless customization
- Adapt the data model to the needs of your project
- Connect an existing database
- Improve user experience (UX)



Poster presented at Going Romance 2016 by Anja Weingart (Georg-August-Universität) and Nils Cordes (binfort), design by Martin Doerken (zsuwd)

<sup>1</sup> The joint project "Components of Romance Syntax / Bausteine Romanischer Syntax of the Freie Universität Berlin (Guido Mensching und Anja Weingart) and the Universität Konstanz (Eva Remberger and Ion Giurgea) has been funded by the Deutsche Forschungsgemeinschaft from 2008 - 2011.

References:  
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