Able-to-Include: Improving Accessibility for people with Intellectual Disabilities

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While this project has the wider goal to improve the accessibility of the information society for people with intellectual disabilities, one of the important means for achieving this is the automated **text-to-pictogram** translator which has been developed for Dutch (webservices.ccl.kuleuven.be/picto/). In the Able-to-include project we localize the text-to-pictogram translator in order to make it work for Spanish and English, besides Dutch.

Pictograms have been linked to Wordnet synsets from the Dutch lexical-semantic database Cornetto (Vandeghinste & Schuurman @ LREC2014). We will establish links between Princeton Wordnet and the pictograms by using the equivalence relations which link Cornetto synsets to Princeton synsets. In a second stage we will establish the link between the pictograms and the Spanish Wordnet by using the equivalence relations that are provided between the Spanish Wordnet and Princeton Wordnet. In order to obtain a full localisation of the **Text2Picto** translator, we will also have to adapt the linguistic components to English and Spanish.

We will also provide **Picto2Text** which translates a sequence of pictograms into natural language, and which will be used in combination with a pictogram-selection mechanism that serves as input method for people with writing difficulties.

The tools work with two different pictogram sets, Beta and Sclera.

These tools will be used in several pilot projects involving actual user organisations and users with intellectual disabilities, allowing to measure their impact on the daily lives of the target group.