



# **Preliminary Findings of the Vision Group Translation and Localisation**

**META=VISION**

**Josef van Genabith**

**Centre for Next Generation Localisation CNGL  
Dublin City University**

**META-COUNCIL 2010, Brussels**



Co-funded by the 7th Framework Programme of the European Commission through the contract T4ME, grant agreement no.: 249119.

# About the Speaker

- ❑ Josef van Genabith
- ❑ Director: Centre for Next Generation Localisation (CNGL)
- ❑ Professor School of Computing, Dublin City University (DCU), Ireland
- ❑ Founding member of META

# Vision Group

## Translation and Localisation

- ❑ **Fields:** Technical documentation, consumer information, official bulletins, user interface localisation, translation services, information gathering, **user-generated content** etc.
- ❑ **Stakeholders:** Software companies, large users of translation and localisation services, Language Service Providers, translators, customers, consumers, citizens etc.
- ❑ **Organizers:**
  - Hans Uszkoreit (DFKI, Germany)
  - Josef van Genabith (DCU/CNGL, Ireland)
- ❑ **Meetings:**
  1. Berlin, 23 July 2010
  2. Brussels, 29 September 2010

# Needs

- ❑ Translation is an emotional topic that needs to be handled with care.
- ❑ Despite progress, the problem of HQMT remains unsolved, often “quality” still is a major problem.
- ❑ Translation is not only a linguistic business:
  - Context and common sense knowledge play a decisive role.
  - The value is in the information, entertainment, etc., not in the translation itself.
- ❑ Translation workflows and business models are not up-to-date:
  - Data and software migration are very difficult.
  - In some areas too many documents are translated with no real need.
  - *A lot of money is wasted non-productively!*
  - Customers self-service on WEB, user-generated data
  - Lack of personalisation
  - The mobile WEB

# Visions

# New Workflows

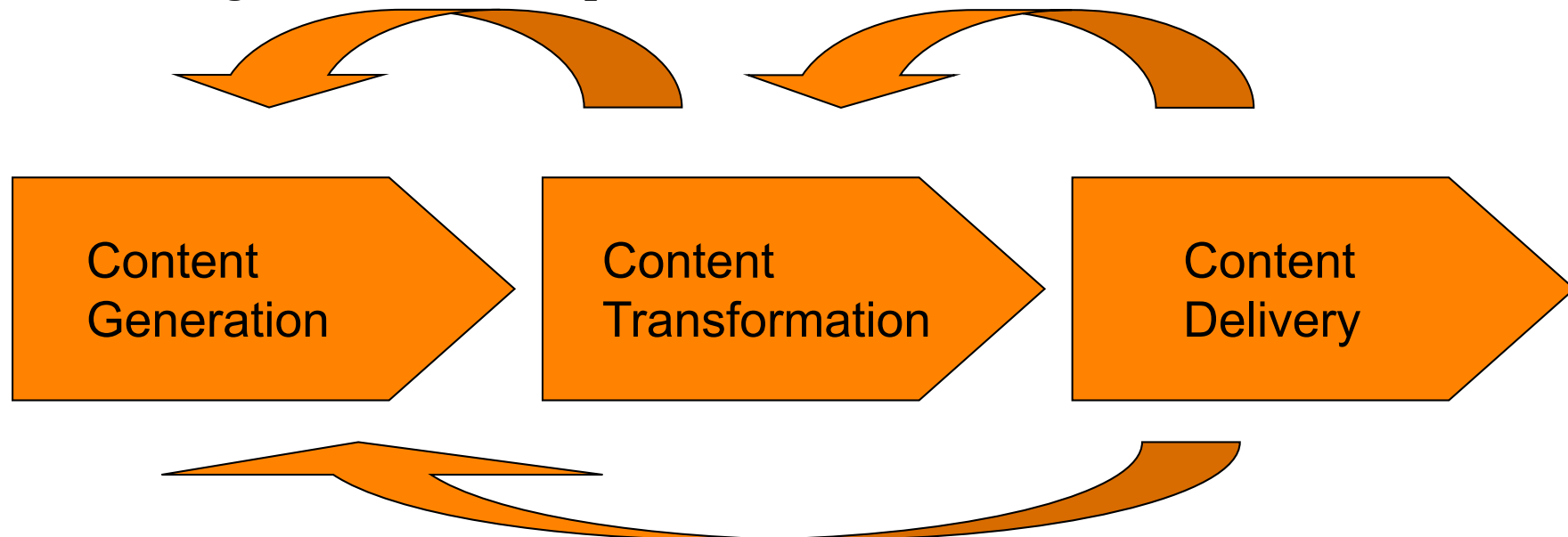
Different demands require **customised solutions**, e.g.,:

	Time	Costs	Trust/ Security	Quality	Personalisation/ corporate ID
<b>Outbound high quality translation</b> (corporate, manuals, PR material, etc.)	Not critical	Can be costly	Medium	Highest possible	Important
<b>Inbound cross-lingual information gathering</b>	Must be fast	Must be affordable	High	Medium	Not needed
<b>Translation for private users</b> (online content, communication)	Near realtime	Must be cheap	Medium to Low	Medium	Would be a plus

# New Workflows ctd.

## Example of a new workflow: **going upstream**

- Many (if not most) problems arise from the poor quality of source texts to be translated (spelling and grammar errors, ambiguity, missing context, terminology etc.)
- User-generated content ...
- Integration of content production and translation on demand





## ❑ **New MT technology and infrastructure**

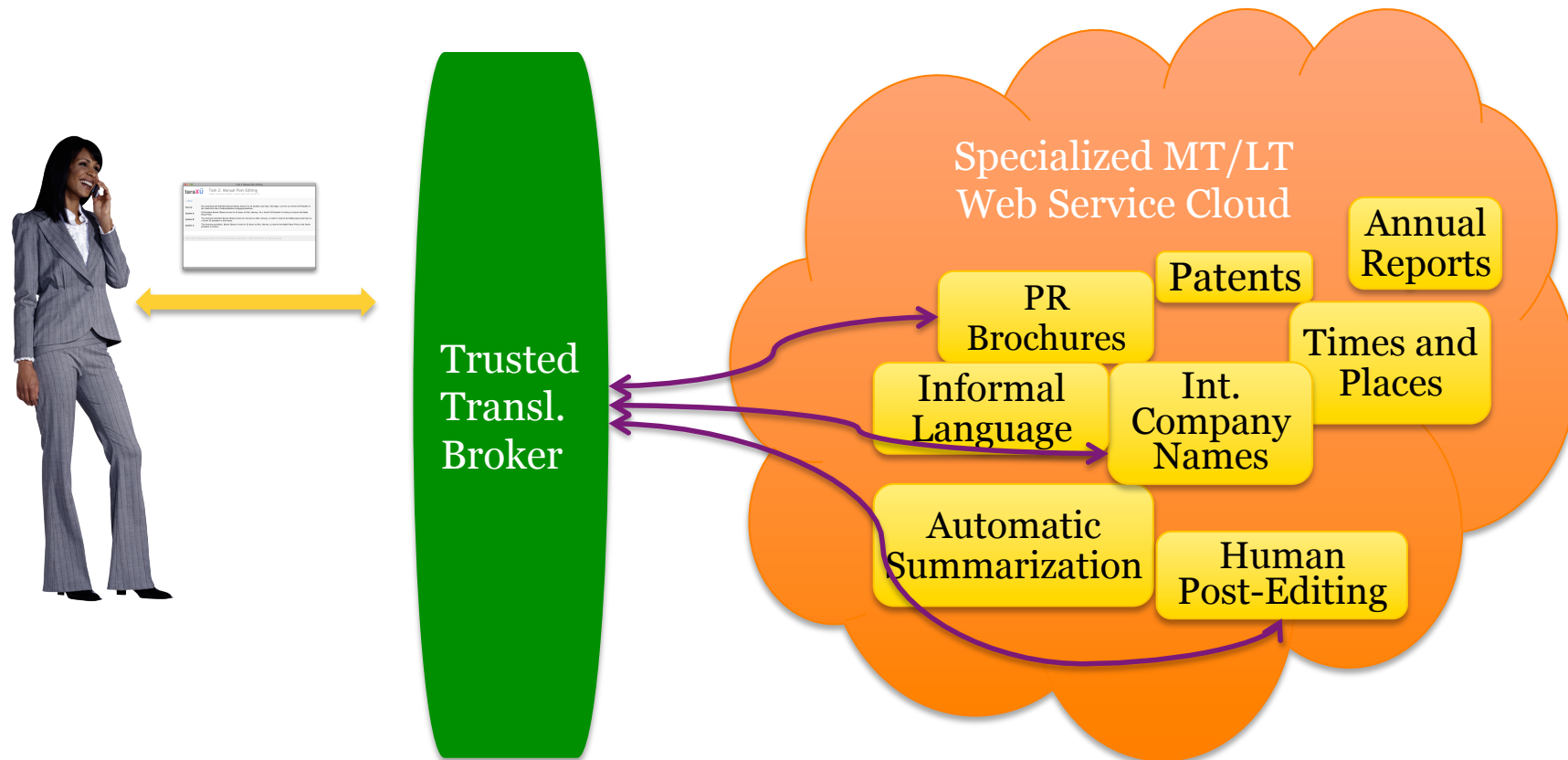
- Drawing on (artificial) knowledge heavily (user needs, context, task, ambient semantics, web, etc.) with machine learning
- Sharing of data and resources: Standards, interoperability, agile workflows!

## ❑ **Translation brokering**

- Brokering service sends input to domain/language/style/genre/corporate/user/etc. adapted services
- Cloud of highly specialised LT/MT services
- Interoperable components, connected by highly adaptive workflows
- SMEs as well as big companies offer/use specialised LT/MT services
- On demand
- Transparent cost calculation

# Translation Brokering

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- ❑ **New Human-Centred Research Paradigm in MT:**
  - Human Factors:
  - Truly hybrid processes of machines (robots?) and humans
  - Humans as providers of data, insights, quality judgements, critique, etc.
  - Humans as test users and evaluators of early MT prototypes
- ❑ **New training for pre- and post-editing** of MT texts (missing in current curricula for translators)
- ❑ MT/LT students should be trained in translation.

# Topics with Visionary Potential META<sup>≡</sup>VISION

## ❑ **Domain specific**

- More knowledge sources in MT (and machine learning)
- New modes of research studying and involving translating humans
- A new role for the human in the machine translation process

## ❑ **Domain independent**

- New, transparent business models: mobile WEB, user-generated content
- New computing/deployment models/workflows:
  - Interoperable plug & play components
  - Adaptive, agile workflows
- New ways of sharing resources and knowledge in R&D

# A Final Vision: Ambient Translation Projection

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