



Multilingual Value Chain Challenges for the Digital Single Market

LT-Innovate Summit

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Customer Engagement Ecosystem

- Digital Engagement is **bi-directional, individual and collective**
- **LT** in engagement must allow org to **excel at it niche**
- Must become systematically **multilingual**
- Must serve **micro-domains** that allow Orgs to add value



Challenges matching supply and demand

Technical - lexicons vs. domain terminology/ontologies

- Needs mechanisms to grow, merge and maintain lexical-semantic graph across value chain
- LT Service Chains must handle overlapping annotations – text and media

Legal – Complex rights and provenance for LR

- Complex matrix of copyright, moral rights, DB Directive, Data Protection, Public sector exemptions
- Uncertain, expensive, ignored?

Business – end-to-end value

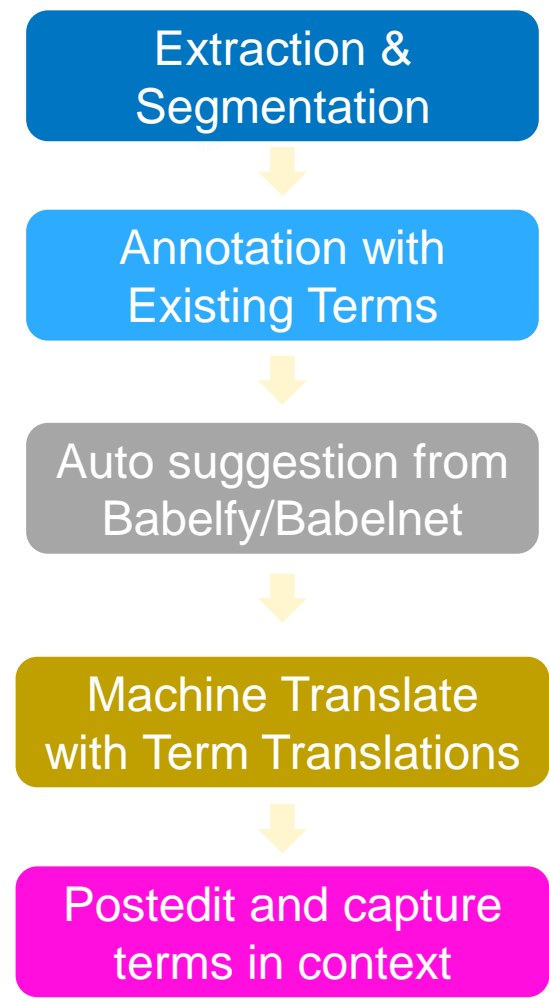
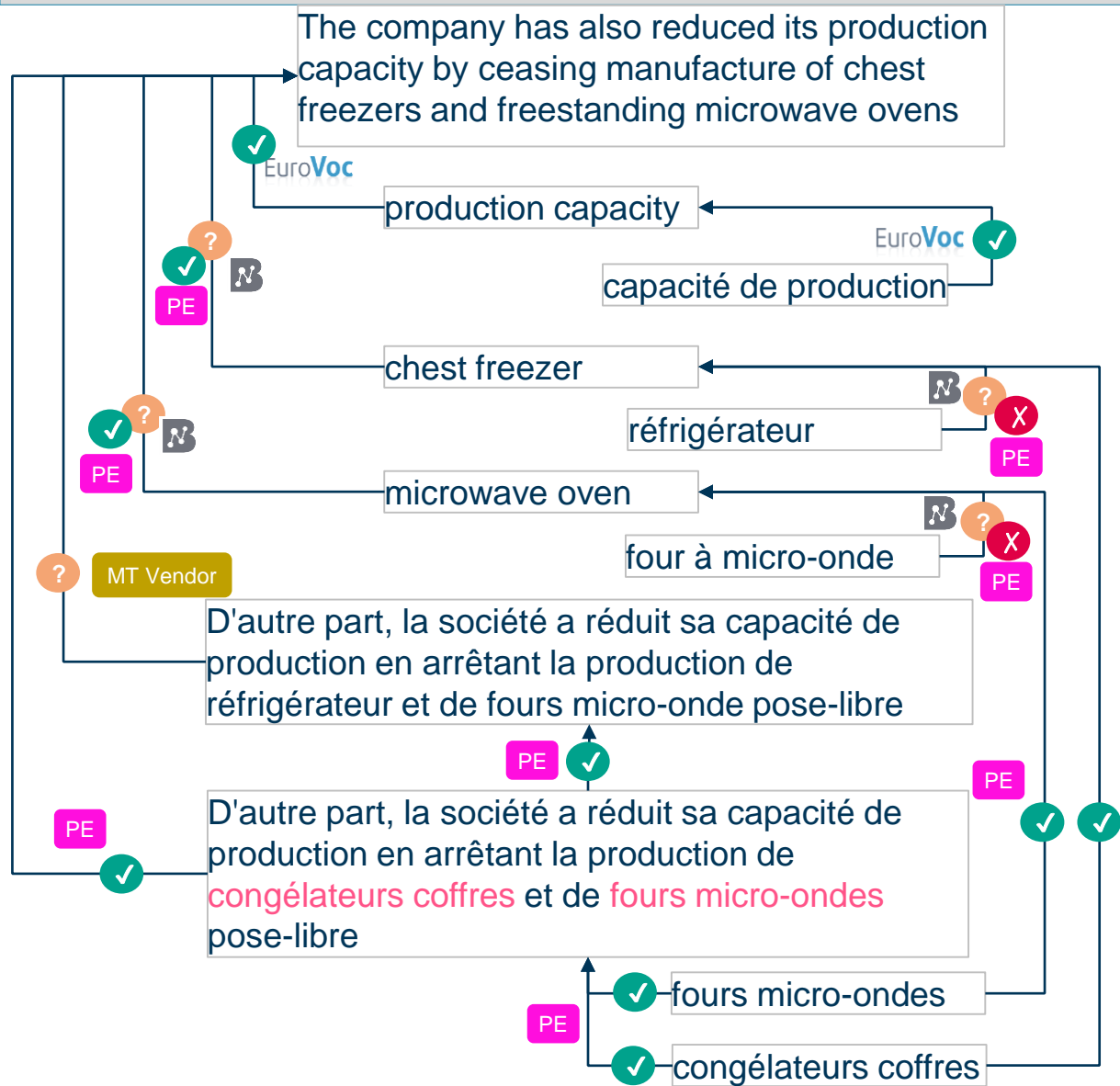
- Value creators: authors, linguists, translators, reviewers are poorly incentivised
- LT impact on end user value not measured: conversions, problems solved, knowledge found, advocates nurtured -> A/B Testing

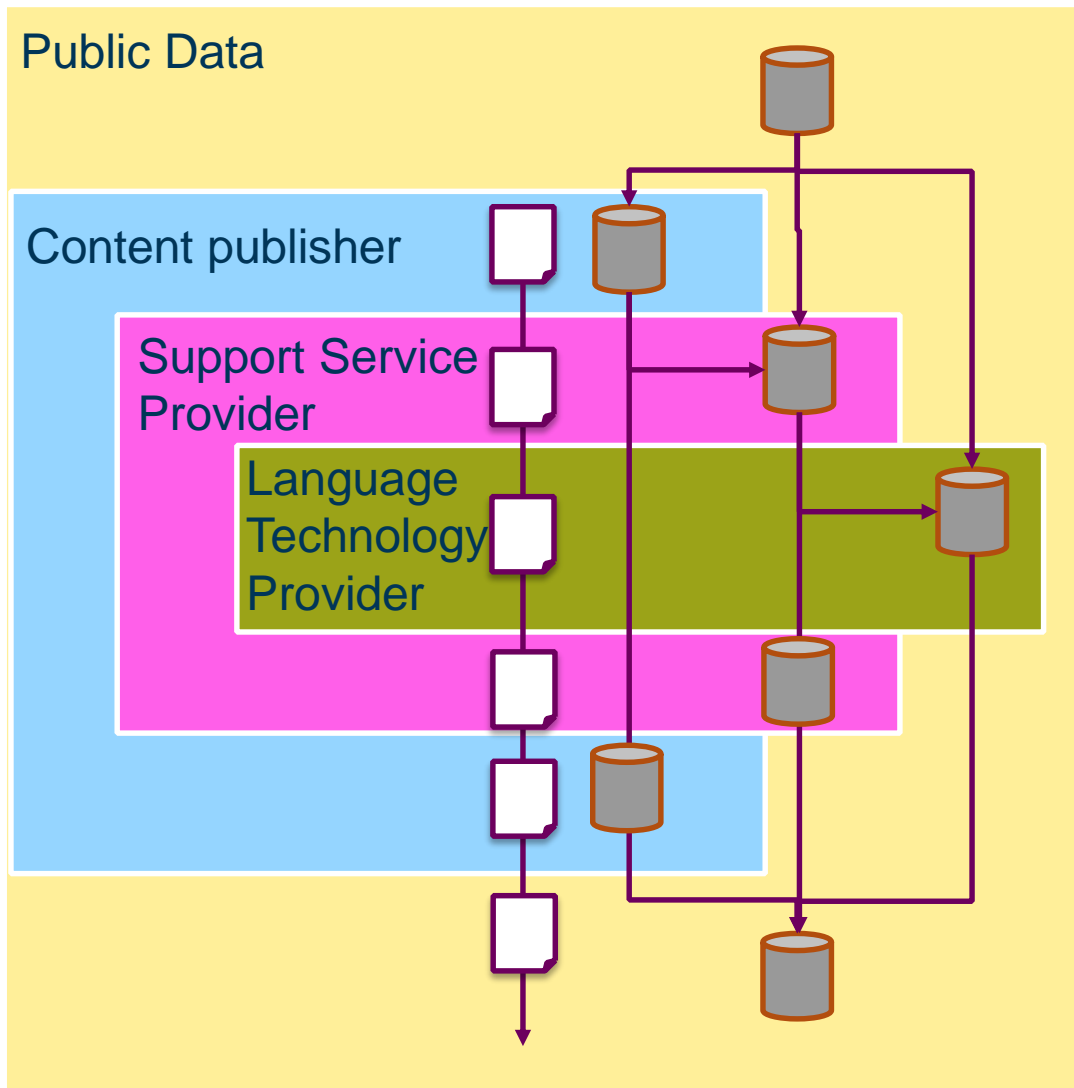


- Services must integrate easily into existing and future systems
 - Web content management systems
 - Web analytics
 - Site search and SEO
 - Translation management systems
- Open APIs – Basic lexical services
 - Spell checkers
 - Part of speech taggers
 - Sentence splitters
 - Stemmers
- Open Text Analysis Services – lexical-semantic
 - Automated Term Extraction
 - Named Entity Recognition
 - Work Sense Disambiguation

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Example: Adding LR value through LT usage





- Protect & pool niche knowledge
- Interlink corpora and lexical-conceptual resources
- Measuring ROI at each point in value chain
- Manage ownership, rights and rewards
- Privacy by Design for Social Media data resources
- Open data for NLP Shared Tasks

- THANK YOU!