



Inbound versus outbound translation

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Presentation in panel: Localization in customer support

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Outline

- **Analyzing needs for customer support**
- **Translation approaches**
- **Translation system types**
- **Capturing human knowledge in translation systems**



Factors to Consider

Categories below are a list of guideline topics to evaluate one's real need (ie, online customer support)

- Translation approach
- Documentation (or speech) type
- User/audience type
- Number and types of language directions
- (Semi-)Automated translation system types
- Levels of human-machine interaction
- Means to capture human knowledge and recycle it
- Mapping system features/modules to translation approach types and needs



Needs analysis questions

- What translation approach(es) to use (Inbound, Outbound, or both)?
- What types of documentation (or speech) to translate?
- What is the expected throughput quality?
- What is the threshold of error tolerance by users?
- What is the level of language (ie, language register) to be used?
- What are language skills of users?
- What are the types of (semi-)automated translation systems? Do these fully or partially correspond to my need?
- Is human-machine interaction part of my intended process? Can the existing software/systems cover the necessary interaction?
- What human knowledge capture/insertion channels in system/process
- What features and modules in commercial tools (MT, TM, etc) correspond to one or more needs, and which ones do NOT?



Inbound Translation

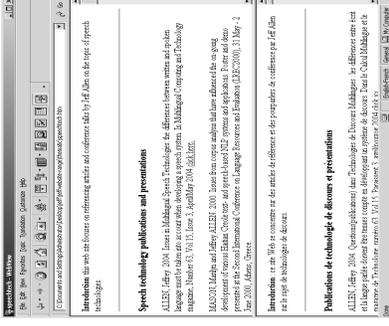
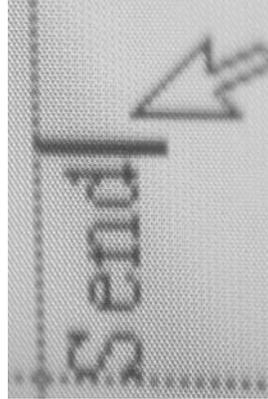


Medium 1



Medium 3

Medium 2





Translation approaches

Inbound Translation approach

- MT Browsing-Information/Content Gisting (no post-editing)
 - ▶ online (published and frozen) documents (general: newspapers, brochures; customer support: technical overview, feature guide, specifications, white papers)
 - ▶ e-mails
 - ▶ internet / intranet web pages
 - ▶ MS Powerpoint presentation for understanding only
 - ▶ draft translation of doc to determine relevance and make preliminary decision
 - ▶ voice-driven online help menus (phone voice box, immigration service, health dept, hospital, pharmacy, etc)
 - ▶ restaurant menus on trips
 - ▶ way finding directions received in foreign language



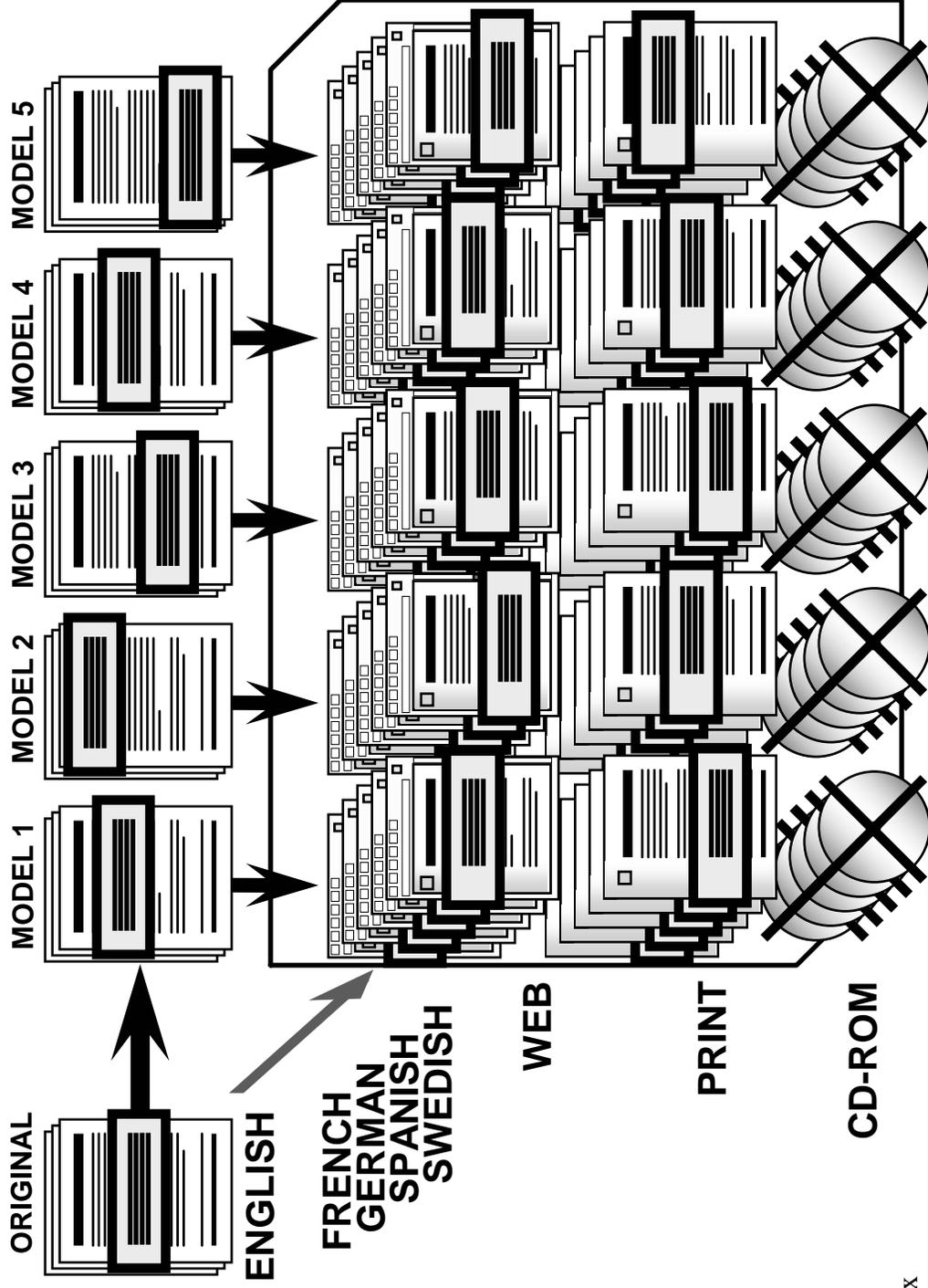
Translation approaches

Inbound Translation approach

- Rapid Postediting
 - ▶ European Commission (EC) Post-édition rapide (PER) / Rapid PE (RPE) Translation service to translate urgent texts "for information only"
 - *internal meeting working papers*
 - *meeting minutes*
 - *technical reports or annexes*
 - *short-life documents*
 - *etc*



Outbound Translation



Slide courtesy Xerox

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Translation approaches

Outbound Translation approach - Translation for publication

- MT with no post-editing (PE)
 - ▶ General: basic survival communication (travel and lodging reservations, interactive way finding, purchase food necessities at bakery, grocery store, etc)
 - ▶ Customer support area: rapid internal company e-mail queries from set of communication guidelines + training



Translation approaches

Outbound Translation approach - Translation for publication

- Partial PE (minimal and/or rapid)
 - ▶ Urgent huge document translation requests impossible to complete without translation tools (remember the 1998 Clinton-Starr report: 500 pages).
 - *Real example: translation of an 80-page user manual in less than 8 hours can only be done by computer-aided translation.*
 - ▶ Customer support: need to send immediate reply by e-mail based on source-only documentation. Must have “technical support” knowledge, fully bilingual skills + basic mastery of translation tool
 - ▶ Draft translation of document as preliminary step toward better quality translation: for example: “workaround” translated within the SLA timeframe.



Translation approaches

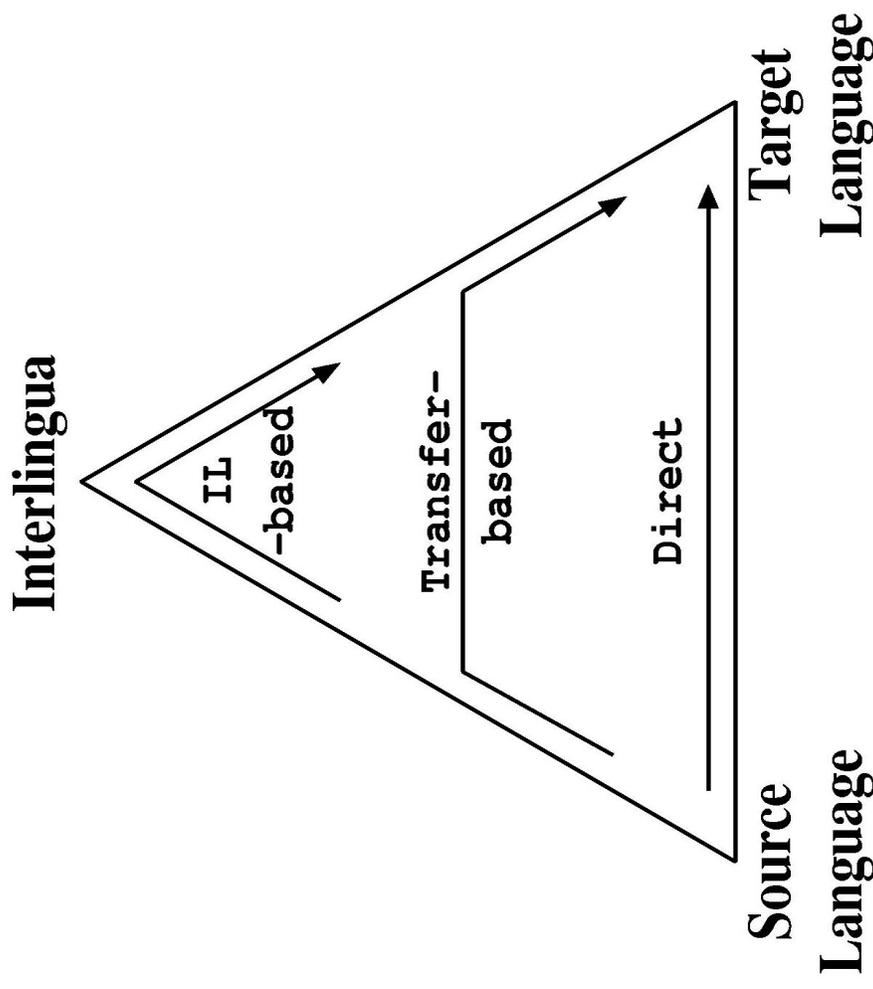
Outbound Translation approach - Translation for publication

- Full Postediting (PE)
 - ▶ Bilingual “technical-level” customer support personnel (or Nth tier support/development) can translate and edit monolingual documentation and send complete reply e-mail to customer.



Machine Translation System types

- Interlingua-based
- Transfer-based
- Direct
 - ▣ Example-based
 - ▣ Statistical





Machine Translation system types

- **RBMT (Rule-based MT)**: majority of commercial MT systems
- **EBMT (Example-based MT)**: Translation Memory software and some academic and government funded research systems
- **KBMT (Knowledge-based MT)**: thematic/semantic role/category approach in some customized industrial MT systems (CMU KANT) & few commercial MT systems (CIMOS, Translingo)
- **S(B)MT (Statistical-based MT)**: many academic and government funded research systems, few commercial MT systems: Language Weaver, and Microsoft NLP group)
- **MEMT (Multi-engine MT)**: government funded research systems & some customized industrial MT systems. Many commercial MT & TM companies now combining TM plug-ins in MT software and MT-like features in TM software.



Capturing Human Knowledge in MT systems

- **Dictionary building**
 - “Mastering MT” tutorial at AMTA2004
- **MT postediting**
 - Read my “postediting” book chapter (see web site) and “Mastering MT” tutorial at AMTA2004
- **Thematic/semantic role assignments in a knowledge-based interlingua**
 - Interlingual semantic mapping is a heavy (and expensive) upfront task
- **Automatic machine learning from postedited texts**
 - Read my CLAW2000 paper (available at web site)



Rapid overview of modules / features - MT systems

Which features / modules in MT systems correspond to various translation approaches / needs

- ePromt Expert / Professional
- ▣ Inbound: PromtE Web Translator, Clipboard translator, MS Plugins, File Translator, Promt Corporate Intranet, Promt Standard, PDF Plug-in
- ▣ Outbound (basic): Promt Standard, QTrans, Dictionary Editor, File Translator
- ▣ Outbound (advanced): Promt, Dictionary Editor, Promt for Trados, Associated Memory

**See my review of the product at
<http://www.geocities.com/jeffallenpubs/swreviews.htm>**



Rapid overview of modules / features - MT systems

- Systran v4 Premium
 - Inbound: SYSTRAN Toolbar (STB) MS plug-ins, SYSTRAN Clipboard Taskbar (SCT), SYSTRAN Multitranslate Utility (SMTU)
 - Outbound (basic): SYSTRAN standard, Clipboard Taskbar (SCT), Multitranslate Utility (SMTU)
 - Outbound (advanced): Translation Professional Manager (STPM), Dictionary Manager (SDM)

See my review of the product at
<http://www.geocities.com/jeffallenpubs/swreviews.htm>



Rapid overview of modules / features - MT systems

- Reverso Expert / Pro:
 - Inbound: Webview, Reverso Express, QTrans, MS Plug-ins, File Translator, Reverso Perso, Reverso Corporate Intranet
 - Outbound (basic): Reverso Express, QTrans, MS Plug-ins, File Translator, Reverso Perso, Dictionary Editor (basic level)
 - Outbound (advanced): Prompt, Dictionary Editor

See my review of the product at
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Rapid overview of modules / features - MT systems

- SDL ETS and AutoTrans
 - Inbound: Enterprise Translation Server (ETS), AutoTrans (PC Desktop)
 - Outbound (basic): AutoTrans (PC Desktop)
 - Outbound (advanced): AutoTrans (PC Desktop), Dictionary Manager, KbT service



Summary

- Know your needs
- Know your translation approach(es)
- Look carefully at what tool features/modules correspond to your approach(es)
- Know your environment well: user skills, roles, tasks, estimated workflow changes due to technology integration
- Choose your tool(s) carefully based on current needs
- Be careful to consider possible future needs that might currently be unexpressed or undefined
- If you use a module or tool for an inappropriate purpose, don't complain. You should purchase the appropriate module or tool



Abstract

One of the factors resulting in the failure of implementation projects of translation systems seems to have been the mismatch between real user needs and what the translation system/software was designed to be used for.

This presentation provides the following: 1) an overview of both Inbound Translation (ie, information translation gisting, content browsing, assimilation) and Outbound Translation (ie, translation for publication, translation dissemination) approaches, 2) an overview of the types of (semi-)automated systems and a brief description to the extent in which knowledge is inserted into and/or captured by the system; 3) the range of different levels of human-machine interaction (ie, minimal, rapid, or full postediting) with respect to the previous points; and 4) how the various features and modules in different current commercial translation tools (machine translation, translation memory, etc) correspond to and are appropriate for meeting these different needs.