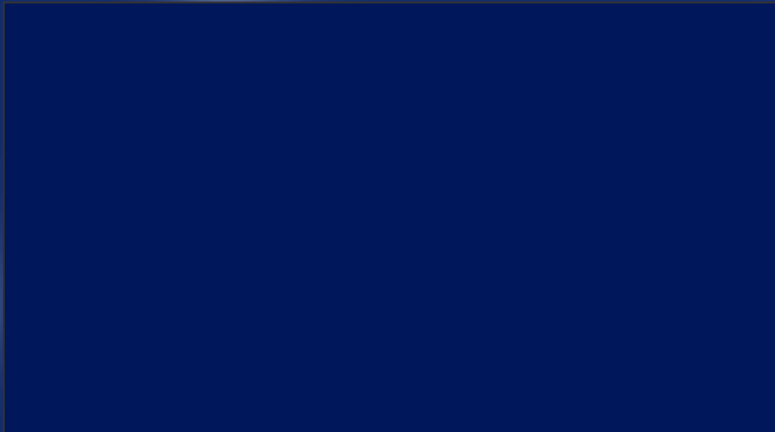


How to Combine Paradigms for Machine Translation

Carnegie Mellon University

Jaime Carbonell

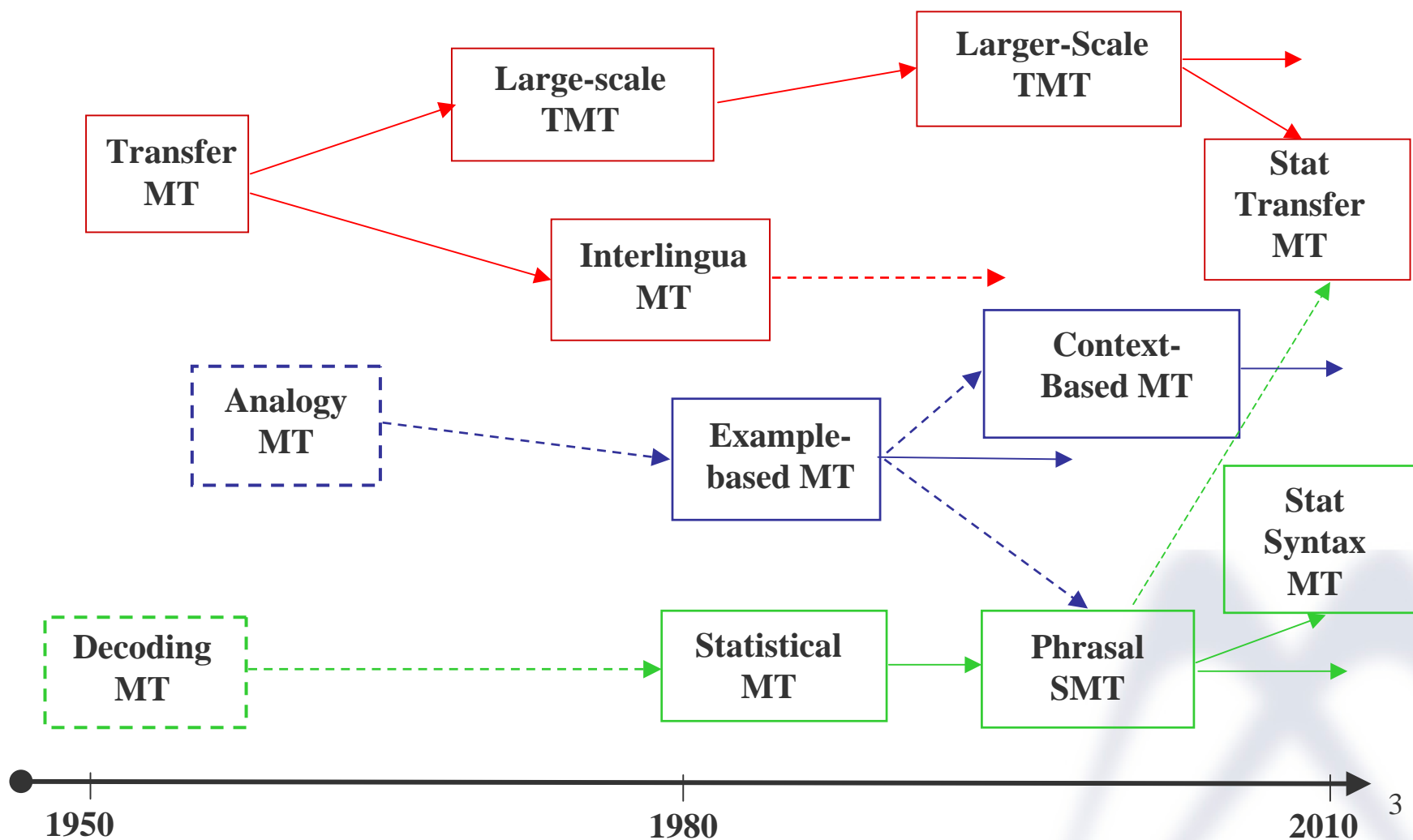


MEANINGFUL MACHINES

Alphabet Soup of MT Paradigms

- Transfer-rule-based MT (RBMT, TMT, ...)
- Statistical MT (SMT)
 - *Phrasal-based SMT (PSMT or SMT)*
 - *Syntax-based SMT (SBMT)*
- Example-Based MT (EBMT)
- Interlingua-Based MT (IL-MT)
- Knowledge-Based MT (KBMT)
- Context-Based MT (CBMT)
- Hybrid Approaches to MT (HAMT)

An Evolutionary Tree of MT Paradigms



What Works

- Best Overall Recombinant Group (BORG)
- Assimilate the best of other paradigms into a dominant one (e.g. SMT)