

# Evaluation of Speech Synthesis Technology

**Method of evaluation depends on the horizon (H1, H2, H3) you inspect the technology**

**H1 (choose product):** products are evaluated wrt. their suitability for a **specific application** (e.g. speech enabled navigation in car)

**H2 (speed up development):** system modules and add-on functionalities are optimized for **application fields** (e.g. telephone server applications) and evaluated; (ECESS/FAVIA approach\*)

**H3 (measure progress in research):** basic new functionalities are explored; evaluation criteria and procedures have to be found (Nick's approach)

## H2: ECESS/FAVIA Approach

- Speech synthesis systems are built up by three modules: text processing, prosody, acoustic synthesis\*
- Functionality, interface and evaluation criteria are specified for each module and for the whole system
- Each module and the whole system is evaluated
- Modules and systems meeting the evaluation criteria are exchanged for research use
- **Impact:** small R&D groups can build complete high performance systems. System integrators can use the modules to built commercial systems leading to more competition and progress in HLT