

Welcome to the OpenHaRT 2013 Evaluation Workshop

Information Technology Laboratory

nist.gov/itl

Information Access Division

nist.gov/itl/iad

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nist.gov/itl/iad/mig

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Washington D.C. , Omni Shoreham hotel

The Multimodal Information Group's Project Areas

Speech

- Speech Recognition
- Dialog Management
- Topic Detection and Tracking
- Spoken Document Retrieval

Video

- Tracking (Person/Object)
- Event Detection
- Event Recounting
- Predictive Video Analytics

Text Extraction

- Named Entity Identification
- Automatic Content Extraction

Speaker & Language

- Speaker Recognition
- Human Assisted Speaker Recognition
- Speaker Segmentation
- Language Recognition
- Voice Biometrics
- ANSI/NIST-ITL Standard Voice Record

Machine Translation

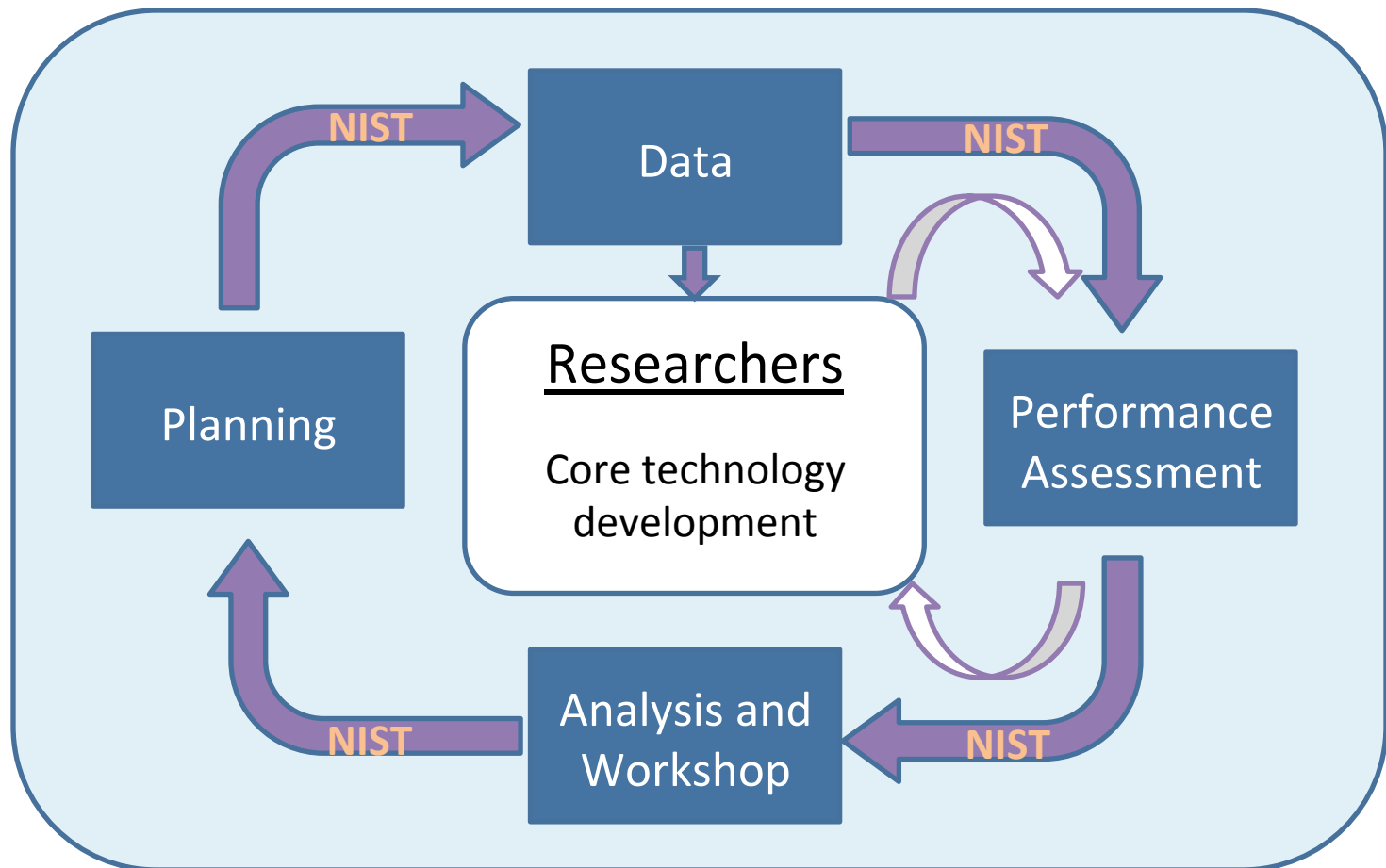
- Text-to-Text
- Speech-to-Text
- Speech-to-Speech
- Image-to-Text
- Metric Development

Data Science

- (new) Data Analytics

Definition: MIG's Evaluation Cycle

Evaluation Driven Research



NIST's MT Program's Legacy – Past 10 Years

- **27 Evaluation Events** -- tracking the state-of-the-art in performance
 - (4) technology types [text-text](#) [speech-text](#) [speech-speech](#) [Handwritten_Images-text](#)
 - (9) languages [Arabic-2](#), [Chinese](#), [Dari](#), [Farsi](#), [Hindi](#), [Korean](#), [Pashto](#), [Urdu](#), [English](#)
- **11 genres of structured and unstructured content**
([nwire](#), [web](#), [Bnews](#), [Bconv](#), [food](#), [speeches](#), [editorials](#), [handwriting-2](#), [blogs](#), [SMS](#), [dialogs](#))
- **60 Evaluation Test Sets available to MT researchers**
([source](#), [references](#), [metrics](#), [sample system output](#) and [official results for comparison](#))

- **Over 85 research groups**

[AFRL](#) – [American Univ. Cairo](#) – [Apptek](#) – [ARL](#) – [BBN](#) – [BYU](#) – [Cambridge](#) – [Chinese Acad. Sci.](#) – [CMU](#) – [Columbia Univ.](#) – [Fujitsu Research](#) – [Google](#) – [IBM](#) – [JHU](#) – [Kansas State](#) – [KCSL](#) – [Language Weaver](#) – [Microsoft Research](#) – [Ohio State](#) – [Oxford](#) – [Qatar](#) – [Queen Mary \(London\)](#) – [RWTH Aachen](#) – [SAIC](#) – [Sakhr](#) – [SRI](#) – [Stanford](#) – [Systran](#) – [UMD](#) – [USC ISI](#) – [Univ. Edinburgh](#) – [Univ. of Karlsruhe](#) – [Univ. of Montreal](#) – [Xerox Research](#)

