



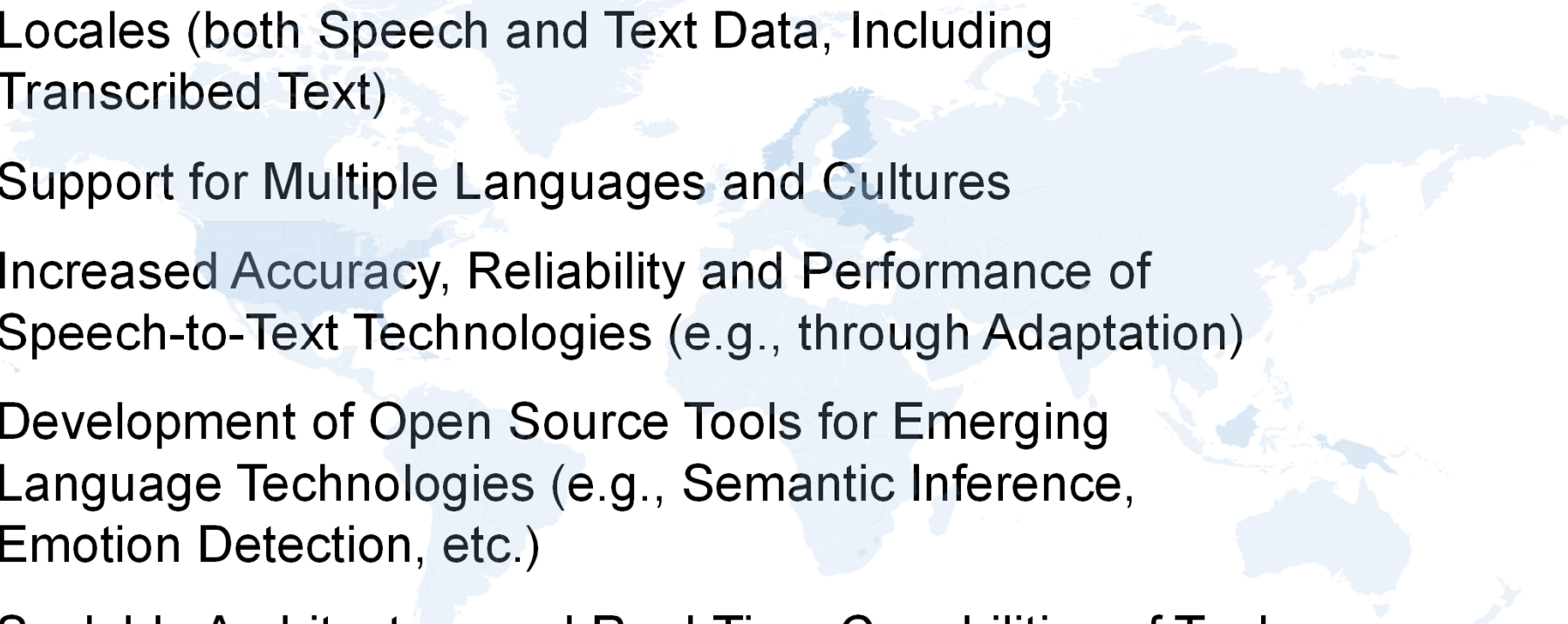
NICE Systems, LT Innovate Summit

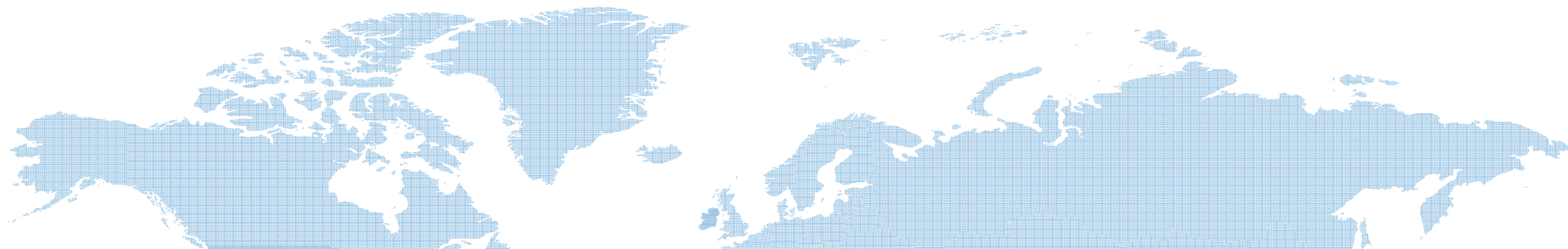
Dan Eylon, Ph.D., Head of R&D, Interaction Analytics

19th June 2012

- NICE Enterprise Analytics R&D Group
 - ~20 Engineers
 - Speech, Text and Language Modeling Activities
 - State-of-the-Art Technologies and Achievements in These Areas
 - Deliverables Used in Actual NICE Products, Processing Multi Millions of Interactions
 - 87 Granted Patents in Relevant Fields
 - Dan Eylon
 - Head of the Analytics R&D Group, NICE Enterprise Group
 - 28 Years of Experience in Algorithm Research and Software Development, 12 patents in relevant fields
 - Ph.D. (Physics), Tel Aviv University
-

- Unsupervised Adaptation of LT (both Speech and Text) to a Wide Range of Domains and Environments
 - Combining Phonetic Search with Speech-to-Text Technologies for Improved Coverage and Performance
 - Optimizing Text Analytics Algorithms to Work with Transcribed (Spontaneous!) Interaction Text
 - Automatic Discovery of Emerging and Unknown Interaction Topics
 - Semantic Inference: “I Waited too Long” ↔ “The Service was Slow”
 - Real-Time NLU (“SIRI-Like”) for Human-to-Human Speech Interactions (Applications: Fraud Detection, Compliance, Risk Mgmt, etc.)
 - Emotion & Sentiment Detection – With Adaptive Capabilities
-

- 
- A faint, light blue world map is visible in the background of the slide, centered behind the text.
- Availability/Acquisition of Data from Relevant Domains and Locales (both Speech and Text Data, Including Transcribed Text)
 - Support for Multiple Languages and Cultures
 - Increased Accuracy, Reliability and Performance of Speech-to-Text Technologies (e.g., through Adaptation)
 - Development of Open Source Tools for Emerging Language Technologies (e.g., Semantic Inference, Emotion Detection, etc.)
 - Scalable Architecture and Real-Time Capabilities of Tools
-



THANK YOU