Microsoft AI

Human ingenuity amplified by intelligent technology

Driving innovation
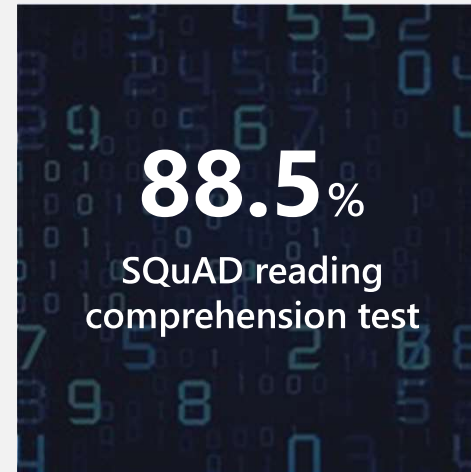
96%
RESNET vision test
152 layers
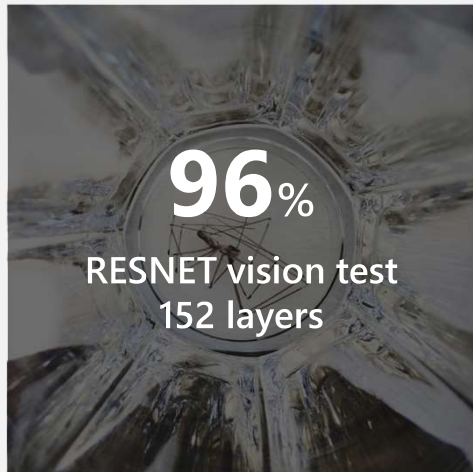
2016

Object recognition
Human parity

5.1%
Switchboard speech
recognition test
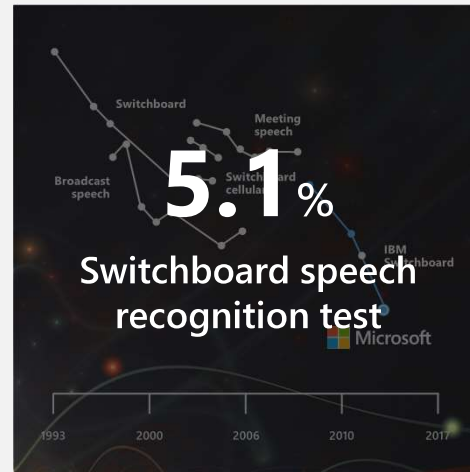
2017

Speech recognition
Human parity

88.5%
SQuAD reading
comprehension test

January 2018

Machine reading comprehension
Human parity

69.9%
MT
research system

March 2018

Machine translation
Human parity

The AI journey
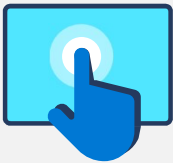
Bring AI to
every application

Bring AI to every
business process

Bring AI to
every employee

Bring AI to every application
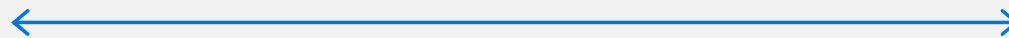
Redefine existing applications with AI
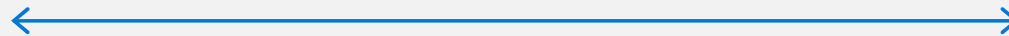
Vision   Speech   Language   Knowledge
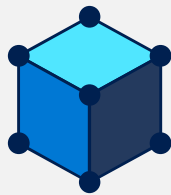
Pre-built AI services

+

Create new conversational AI experiences

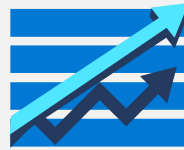**Conversational AI platform**

Bring AI to every business process

SaaS AI

AI Accelerators

Custom AI

Optimized for time to market ←——————————————→ **Optimized for flexibility**

Microsoft Azure - AI platform

Microsoft AI Platform

Azure AI Services

PRE-BUILT AI

CONVERSATIONAL AI

CUSTOM AI

Cognitive Services

Bot Service

Azure Machine Learning

Tools

CODING & MANAGEMENT TOOLS

VS Tools for AI

Azure ML Studio

Azure ML Workbench

Others (PyCharm, Notebooks...)

Azure Infrastructure

AI ON DATA

AI COMPUTE

| Cosmos DB | SQL DB | SQL DW | Data Lake | Spark | DSVM | Batch AI | ACS | IoT Edge |

CPU, FPGA, GPU

DEEP LEARNING FRAMEWORKS

3rd Party

Cognitive Toolkit

TensorFlow

Caffe

Others (Scikit-learn, MXNet, Keras, Chainer, Gluon...)

Azure AI services

Bot Service

Accelerated development for conversational AI.

Cognitive Services

Vision, speech, language, knowledge and search pre-trained services customizable for any scenario.

Azure Machine Learning

Experimentation and management services for creating AI models with productivity.

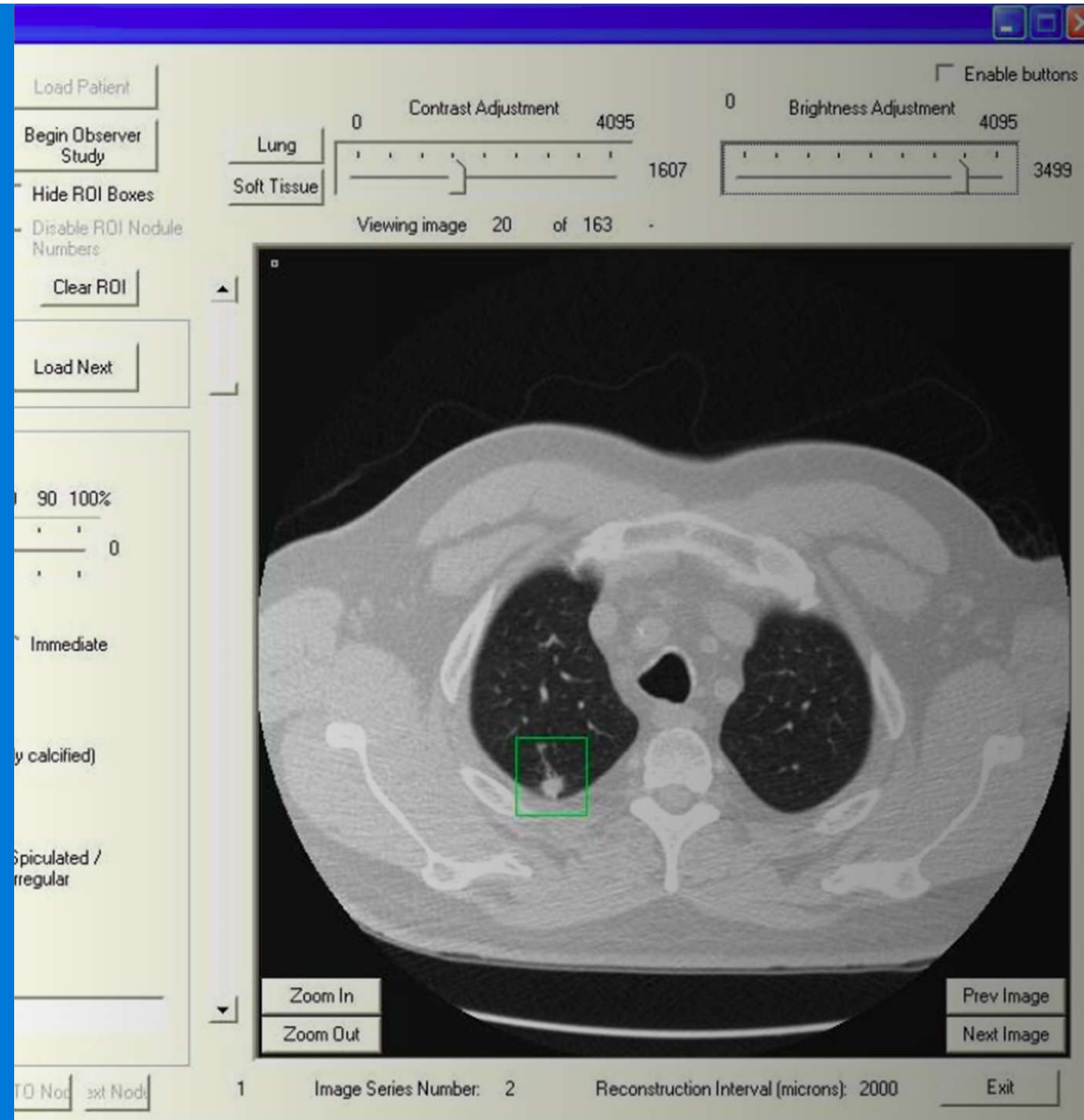
Spider

AI infrastructure

AI on data

Built-in AI across your data estate.

AI compute

Flexible compute infrastructure from virtually infinite cloud scale to the edge .

AI core infrastructure

The AI supercomputer: CPU, GPU, and (coming next) FPGA.

Tools

Visual Studio Tools for AI

Boost productivity with code-centric AI development and Azure integration.

Azure Machine Learning Workbench

Full lifecycle support for AI and data wrangling productivity.

Azure Machine Learning Studio

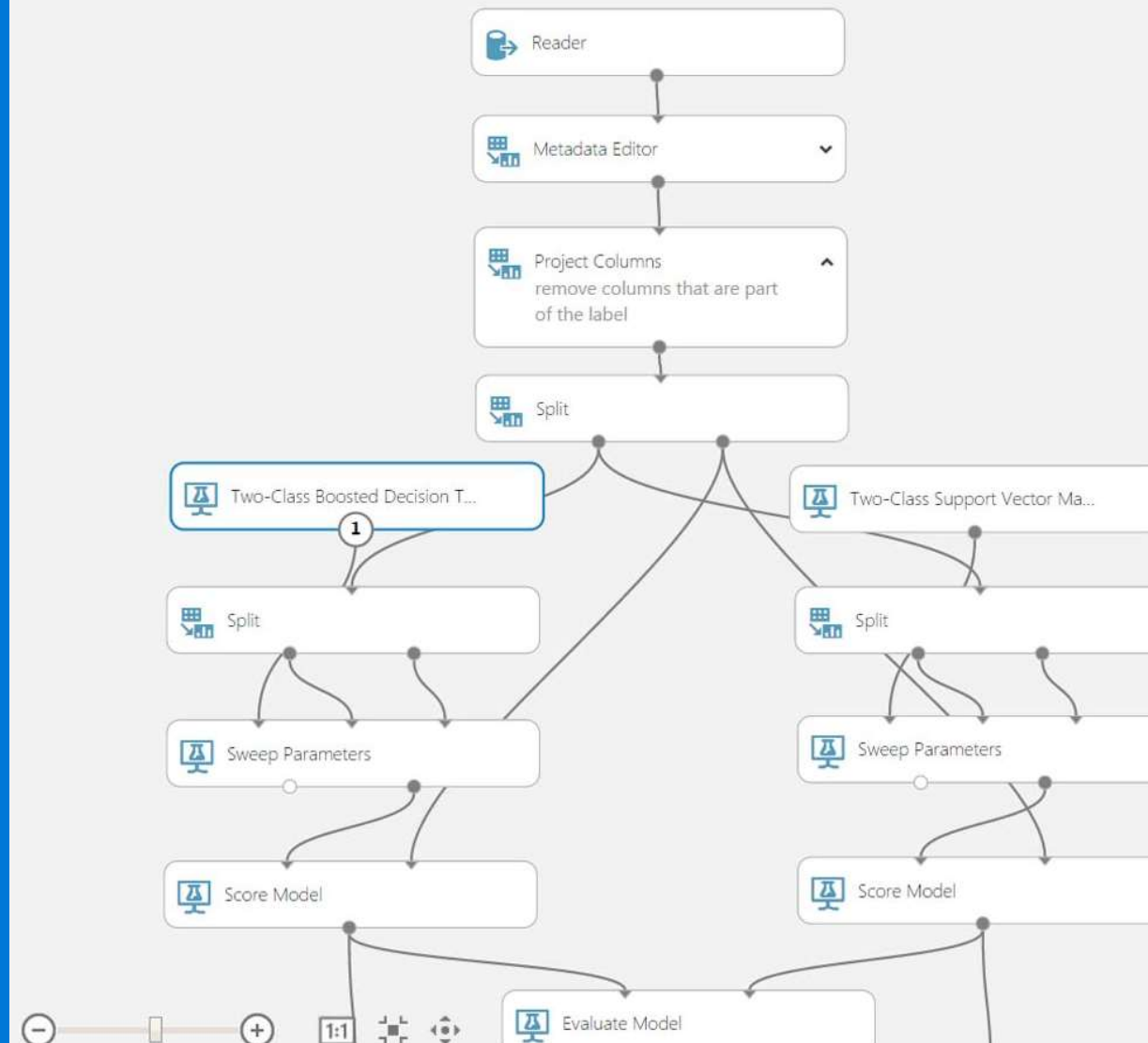Drag and drop machine learning development for any skillset.

Open deep learning framework support

Full support for Cognitive Toolkit, TensorFlow, Caffee and others.

Open standard for deep learning (ONNX).

The AI-ML Development lifecycle