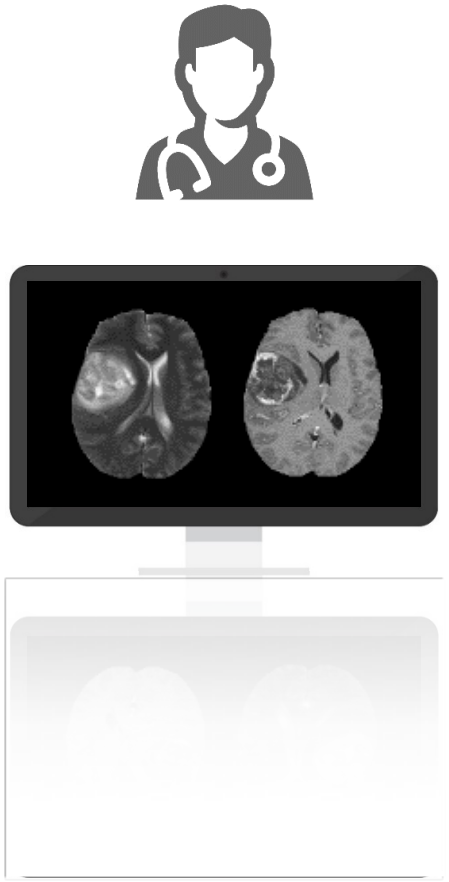
Big Data
IN
Medical Imaging

TRANSLATING DEEP LEARNING INTO CLINICAL ROUTINE

+ CLINICAL ROUTINE



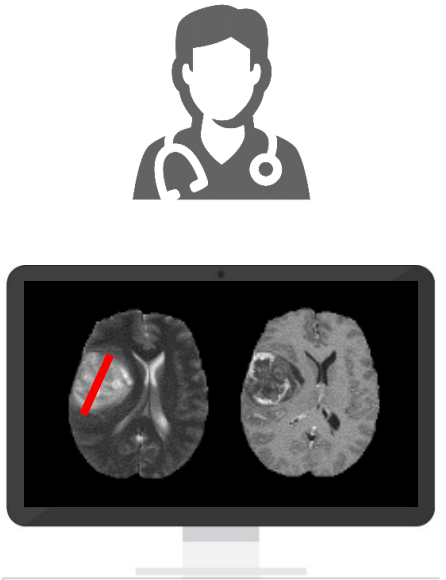
+ CLINICAL ROUTINE

+ CLINICAL ROUTINE

47mm 45mm **50mm**

STABLE

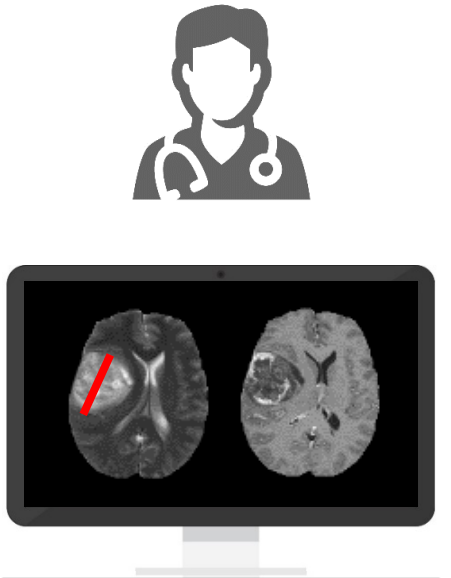
+ CLINICAL ROUTINE



47mm **45mm** **57mm** +25%

PROGRESSION

+ CLINICAL ROUTINE

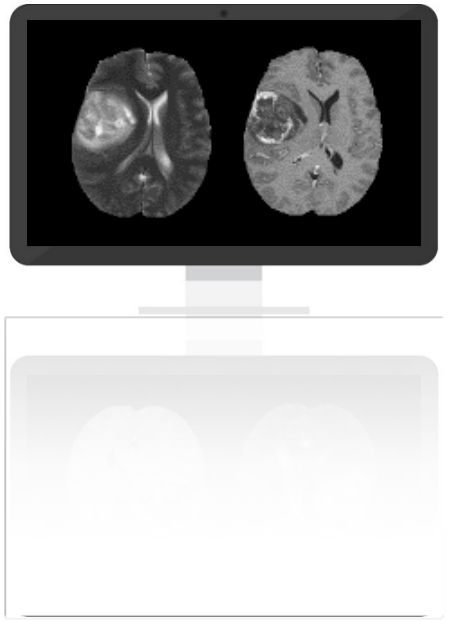


47mm **45mm** **20mm** -50%

RESPONSE

+ CLINICAL ROUTINE

+ RESEARCH

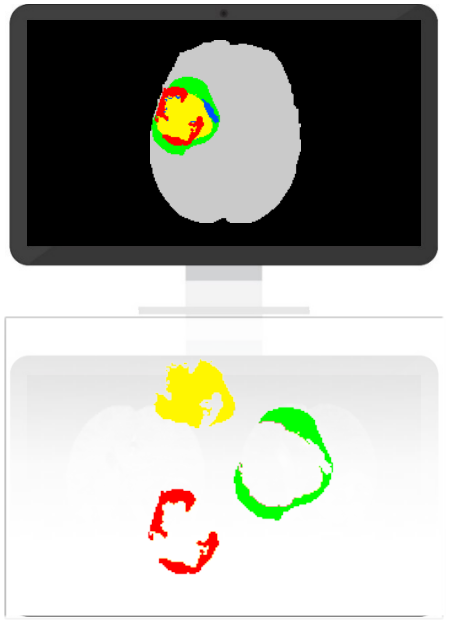


+ CLINICAL ROUTINE

+ RESEARCH

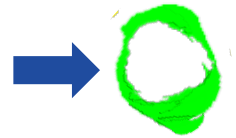
+ CLINICAL ROUTINE

+ RESEARCH



VOLUMETRIC

DISCRIMINATIVE

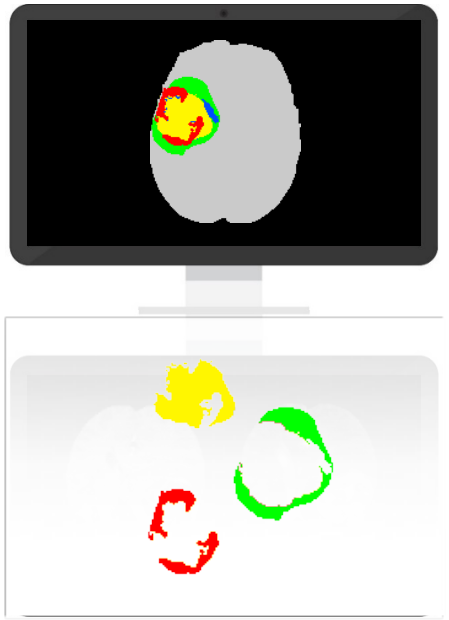


SPATIAL

ASSESSMENT

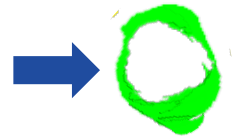
+ CLINICAL ROUTINE ?

+ RESEARCH



VOLUMETRIC

DISCRIMINATIVE



SPATIAL

ASSESSMENT

+ INTEGRATION

ACQUISITION

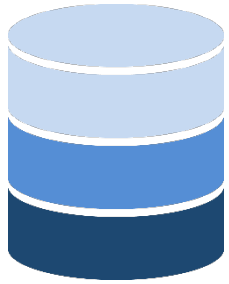
+ INTEGRATION

ACQUISITION

PACS

+ INTEGRATION

ACQUISITION

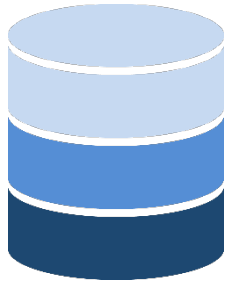


PACS

XNAT 1.7

ASSESSMENT

+ INTEGRATION

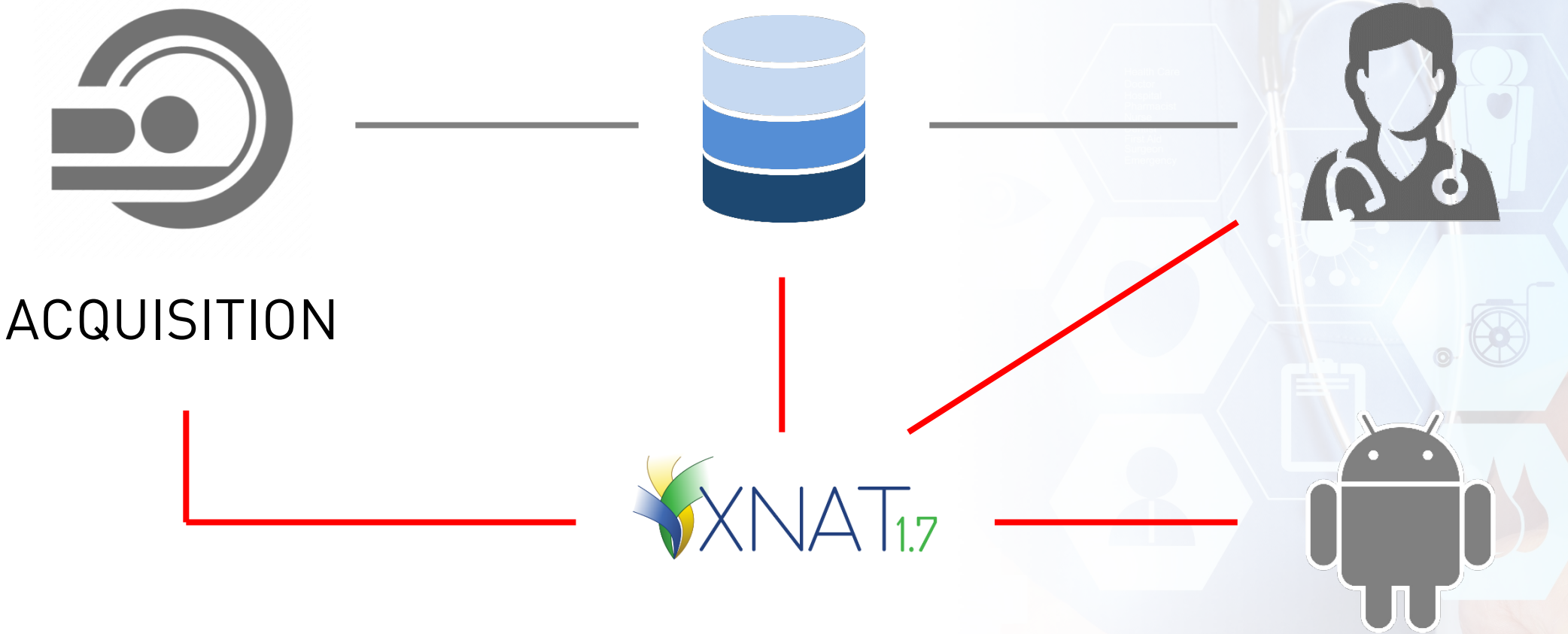


ACQUISITION

PACS

ASSESSMENT

+ INTEGRATION

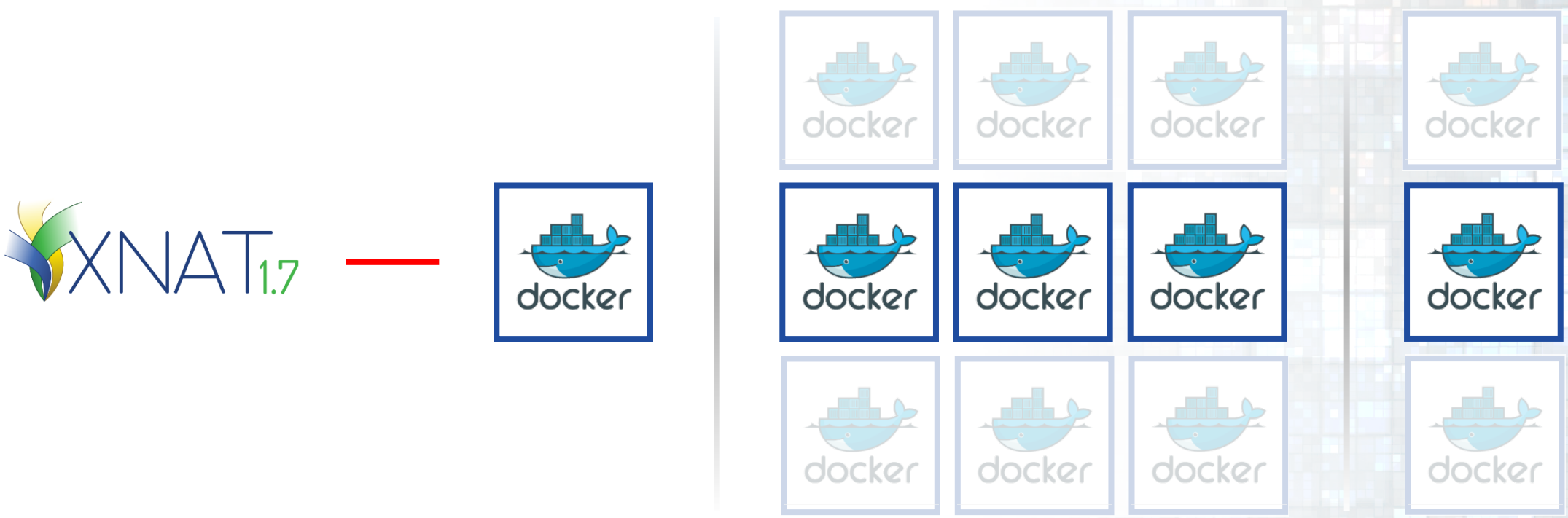


+ INTEGRATION

+ MODULAR PROCESSING

+ INTEGRATION

+ MODULAR PROCESSING



WORKFLOW DEFINITION PREPROCESSING ALGORITHM