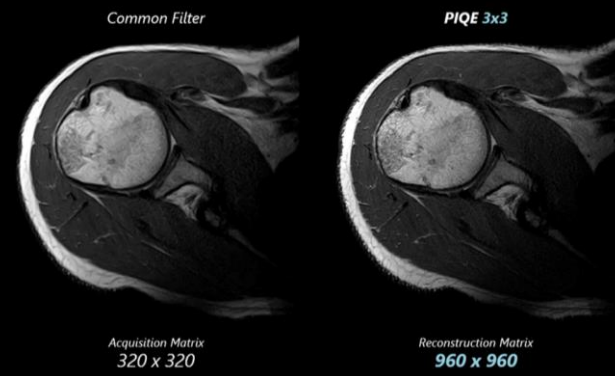
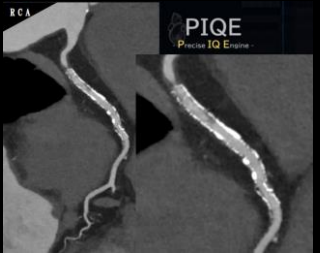
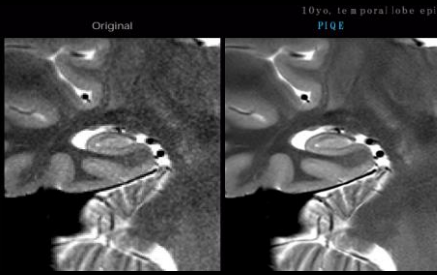
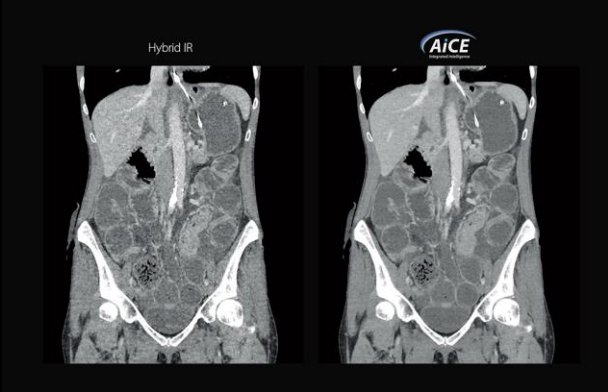


Panel Discussion:
Where is AI
likely to bring the greatest
value to radiology,
considering appropriateness,
quality, service,
cost and waste...?

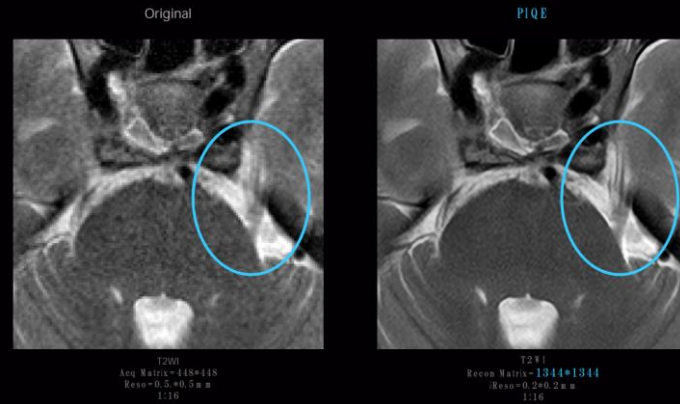
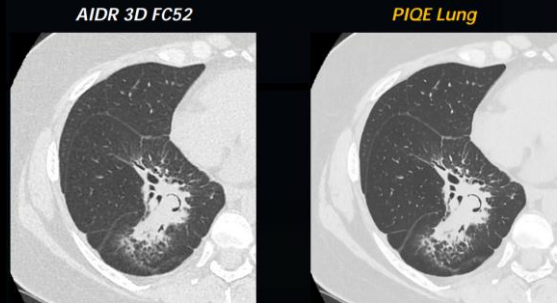
Maryanne McHugh
Canon Medical Systems



	Appropriateness	Quality	Service	Cost	Waste
	Accuracy/Sens/Spec Precision Recall ROC & AUC Confusion matrix Dice coefficient Intersection over union Calibration measure Time efficiency Generalization across datasets Clinical Utility metrics False +ve rate reduction Interobserver agreement Ethical & societal impact	Accuracy/Sens/Spec Precision Recall F!-score AUC-ROC/AUR-PR Confusion matrix Dice coefficient Interaction over union Cohen's Kappa MAE/MSE Calibration metrics False +ve rate reduction	Accuracy & precision Diagnostic accuracy Interpretability Robustness & generalization Clinical impact Time efficiency Safety & reliability Training & validation Ethical considerations User experience	ROI Cost savings Time efficiency Throughput increase Resource allocation Error reduction Operational efficiency Training costs Software & hardware costs Integration costs Maintenance & upgrades Vendor support Scalability Patient outcomes Long term impacts	Computational resources utilization Energy/hardware Data usage & collection – volume/redundancy/collection impact Model development & training Algorithm performance model accuracy vs computational efficiency Model maintenance & updates Regulatory compliance & ethical considerations Real world impact Sustainability metrics Carbon footprint, resource efficiency
TPS					Transport Inventory Motion Waiting Overproduction Overprocessing Defects Underutilized talent
Additional	Over testing Overdiagnosis Recall rates Accessibility Ubiquity	Equity	S&M Cost S&M Complexity Training efficiency Uptime Delivery of performance analytics Delivery of utilization analytics	w/without per exam cost	Value of hardware reliance reduction Extending end of life



Courtesy of Cru Blanc



	Appropriateness	Quality	Service	Cost	Waste
Chat GTP	<p>Accuracy/Sens/Spec Precision Recall ROC & AUC Confusion matrix Dice coefficient Intersection over union Calibration measure Time efficiency Generalization across datasets Clinical Utility metrics False +ve rate reduction Interobserver agreement Ethical & societal impact</p>	<p>Accuracy/Sens/Spec Precision Recall F!-score AUC-ROC/AUR-PR Confusion matrix Dice coefficient Interaction over union Cohen's Kappa MAE/MSE Calibration metrics False +ve rate reduction</p>	<p>Accuracy & precision Diagnostic accuracy Interpretability Robustness & generalization Clinical impact Time efficiency Safety & reliability Training & validation Ethical considerations User experience</p>	<p>ROI/Cost savings Time efficiency Throughput increase Resource allocation Error reduction Operational efficiency Training costs Soft & hardware costs Integration costs Maintenance & upgrades Vendor support Scalability Patient outcomes Long term impacts</p>	<p>Computational resources utilization Energy/hardware Data usage & collection – volume/redundancy/collection impact Model development & training Algorithm performance model accuracy vs computational efficiency Model maintenance & updates Regulatory compliance & ethical considerations Real world impact Sustainability metrics Carbon footprint, resource efficiency</p>
TPS					<p>Transport Inventory Motion Waiting Overproduction Overprocessing Defects Underutilized talent</p>
Additional	<p>Over testing Overdiagnosis Accessibility Ubiquity</p>	<p>Equity</p>	<p>S&M Cost S&M Complexity Training efficiency Uptime Delivery of performance analytics Delivery of utilization analytics</p>	<p>Affordability</p>	<p>Value/% of hardware reliance reduction, Impact on above metrics</p>
Score	4	4	2	4	5