

OLYMPUS Technology Strategy for ICT-AI Platform

# OLYMPUS ICT-AI Platform Strategy

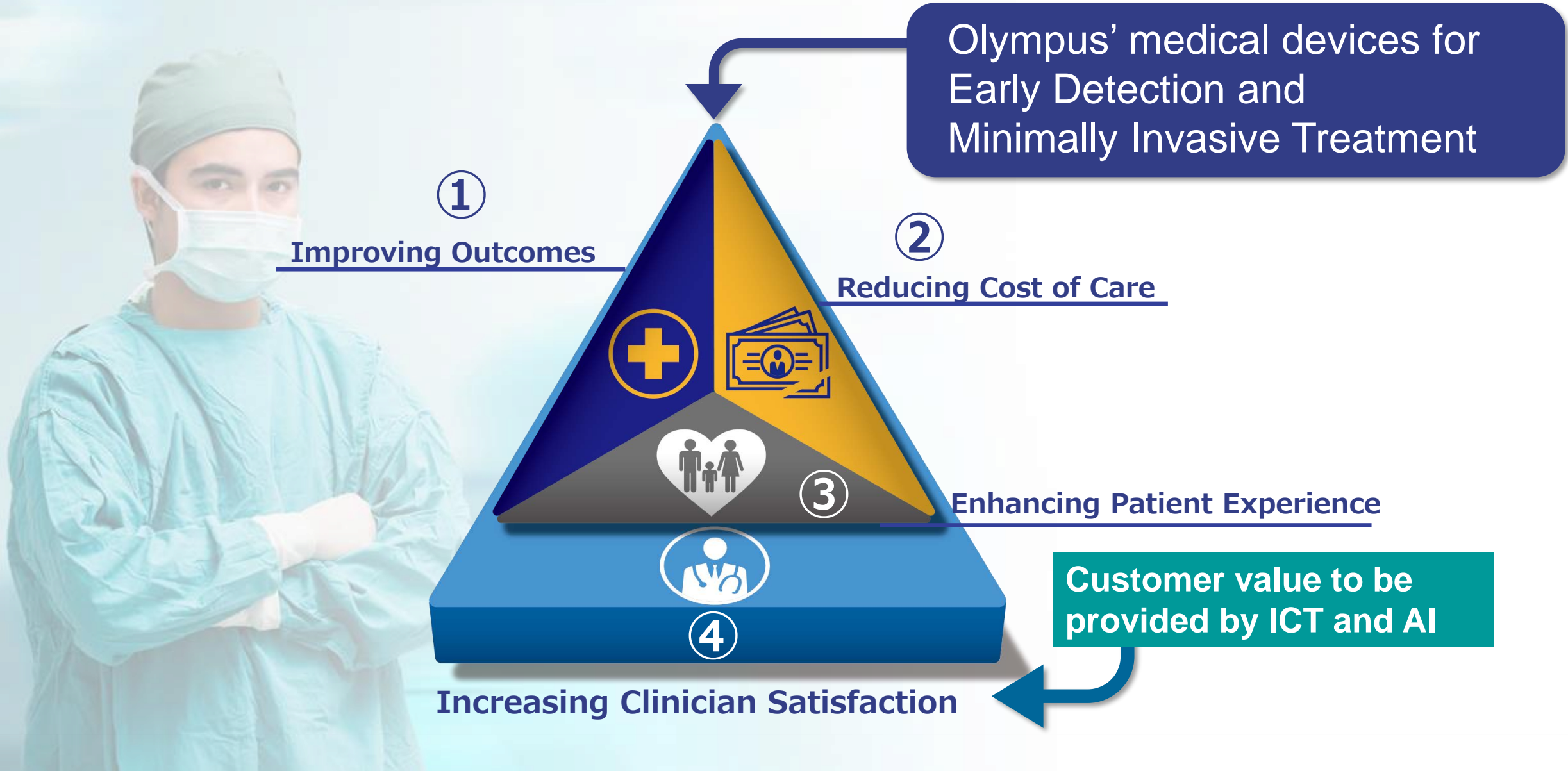
March 13<sup>th</sup>, 2019

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# Customer Value by ICT/AI utilization





Proportion of hospitals in the red

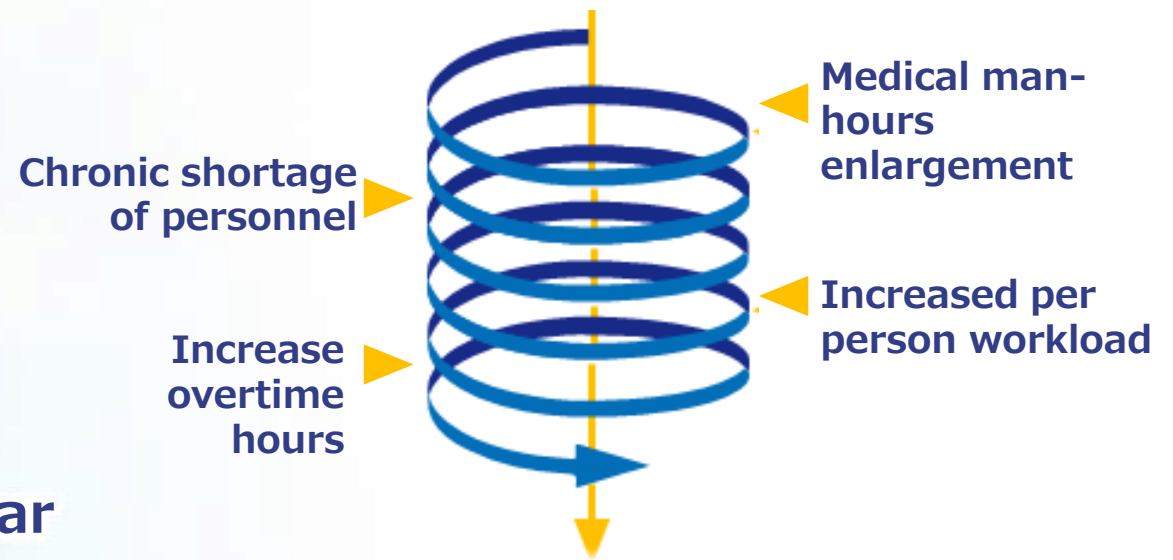
**60%**

Proportion of doctors who worked overtime over 960 hours per year

**51.8%**

Source:  
•e-stat: The 21<sup>st</sup> Medical Economic Survey (Survey of medical institutions)  
•MHLW The 19<sup>th</sup> Study Group documentation for the doctor's work style reform

## Negative spiral



Improvement of HCP working environment is necessary to sustain the medical care quality for the future

# Endoscopic Inspection Workflow



# Enhancing Workflow Efficiency with ICT and AI




 ICT reduces stress/loads in preparation

## Inspection Preparation


## Endoscope Reprocessing

 ICT improves efficiency & quality in cleaning & disinfection

**Insertion**  
 AI supports insertion through navigation \*

## Reporting

  ICT realizes semi-automated reporting

**Diagnosis**  
 AI assists diagnosis by providing more information \*

 ICT supports efficient & effective treatment

## Therapy

\*Technology not yet approved under the Act on Pharmaceuticals and Medical Devices





Reduce downtime with monitoring of devices' operation status



Support appropriate use of and optimal investment in devices through analysis of device usage data



Utilize AI to support Detection and diagnosis\*



Utilize ICT to enable more efficient device use and maintenance



Enhance workflow efficiency by semi-automating reports

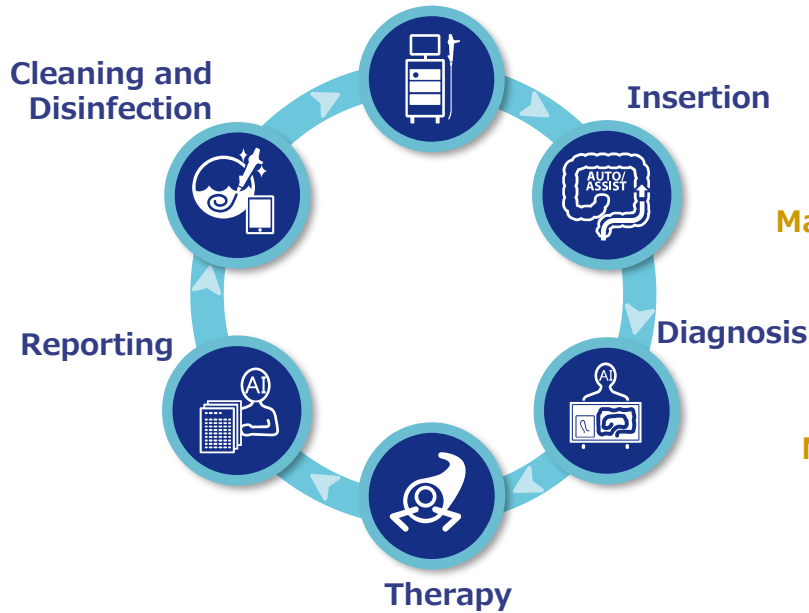
Effective use of devices and optimal investment

Reducing workload on healthcare professionals

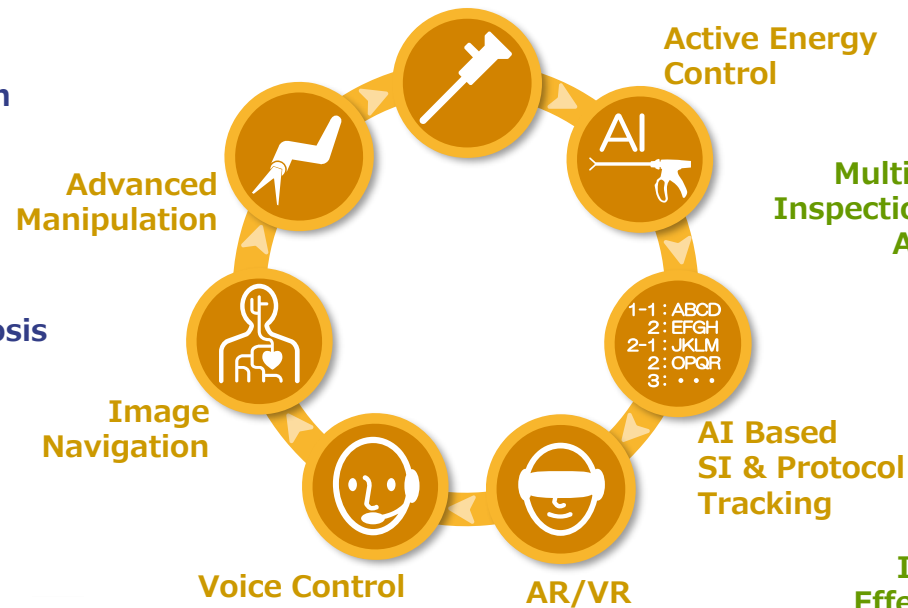
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## Inspection Preparation



## Advanced Imaging

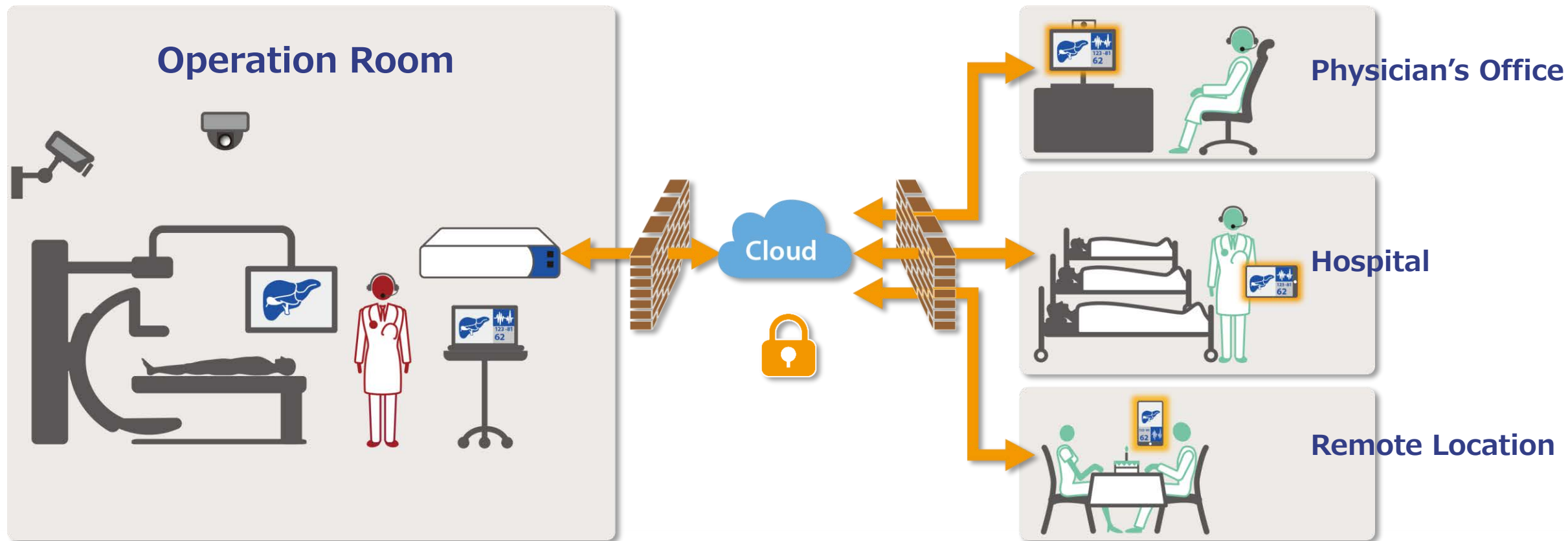


## Digital Imaging Sensing

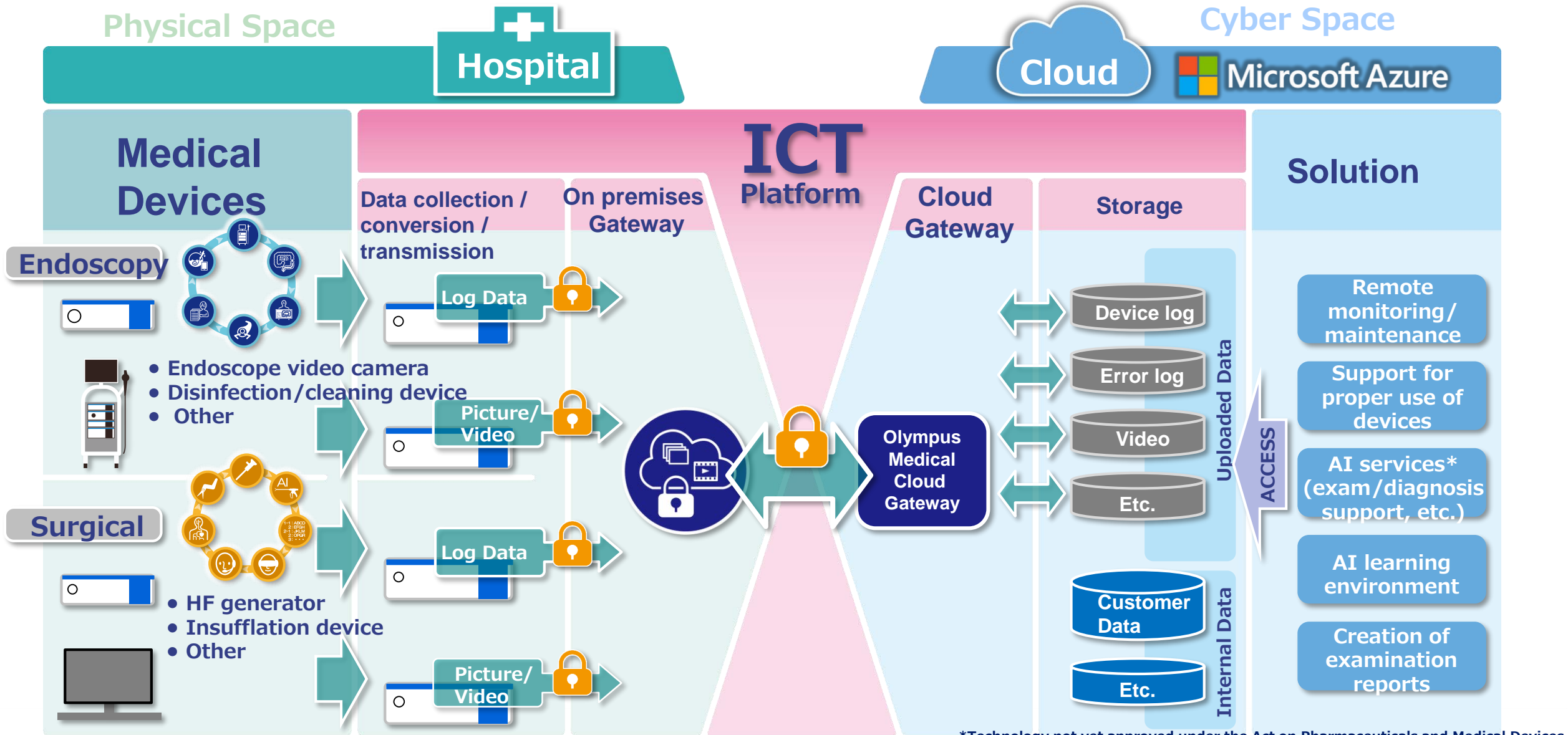




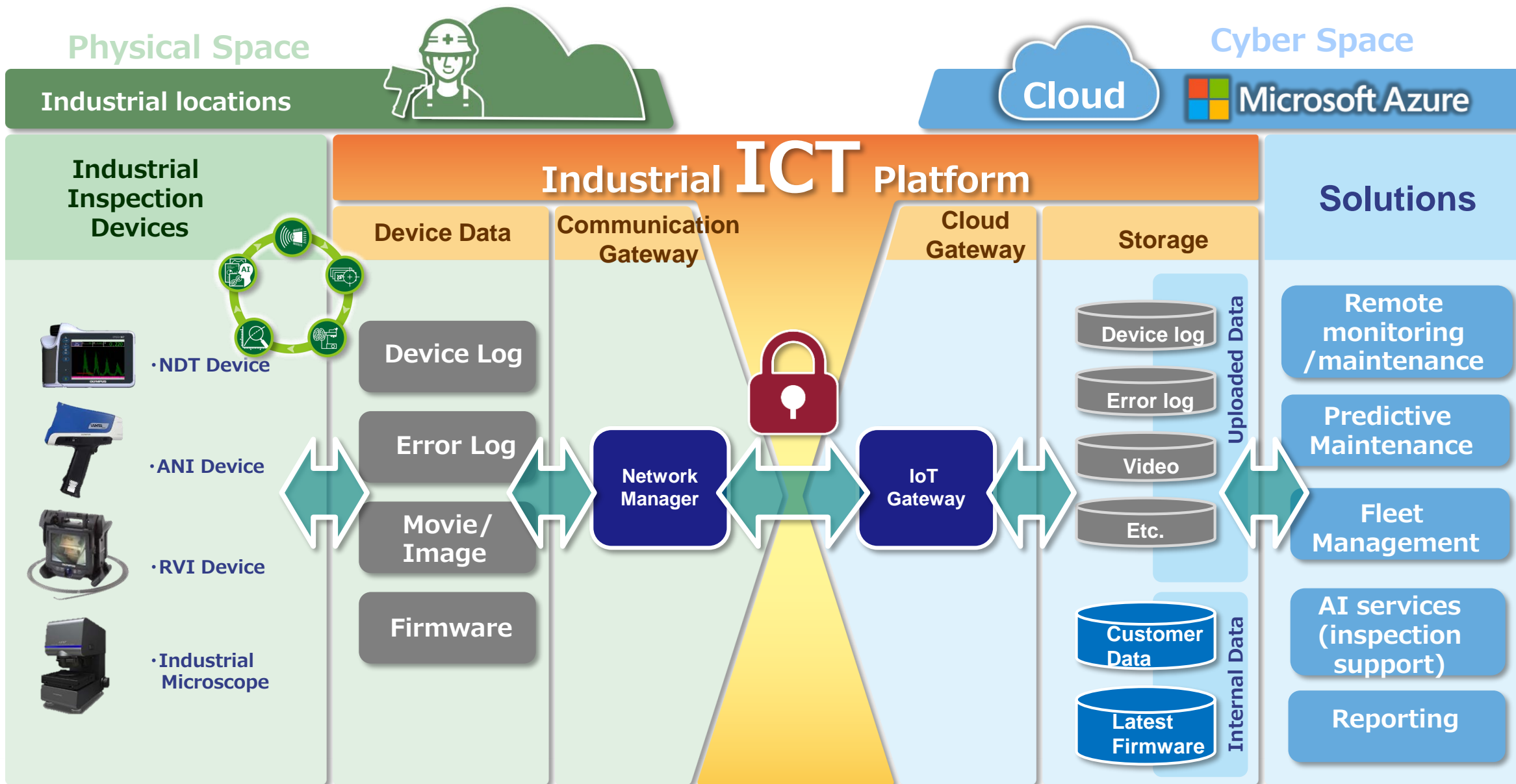
## MedPresence: Remote clinical-support solution (Rolled out in U.S.)



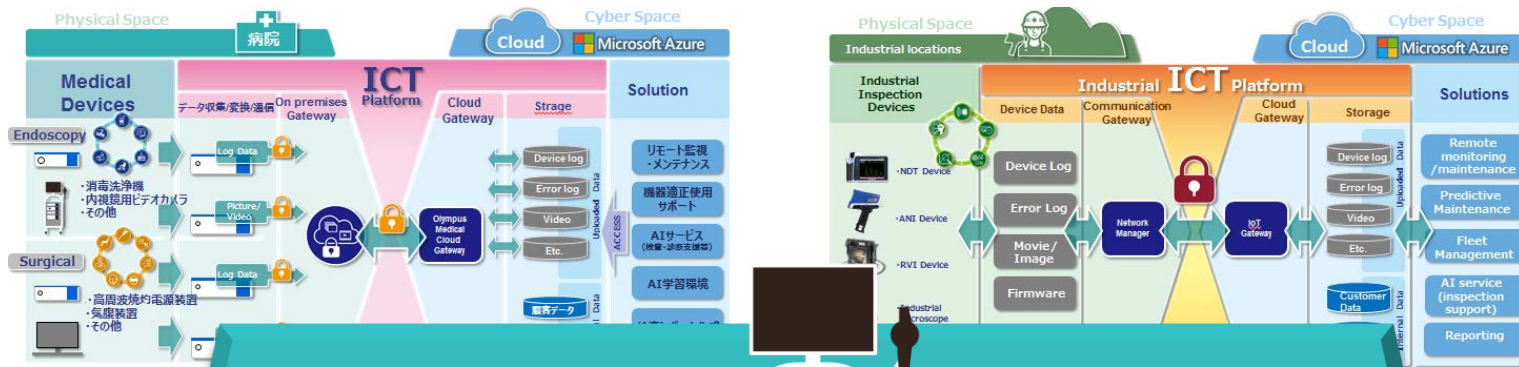




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# ICT-AI Platform: Consolidate Current Business Model



**AI services**  
(examination support, etc.)

**Support proper use of devices**

**Support creation of reports**

**Sales contracts**

**Current business model**

**Value added Solution with ICT-AI  
Customer Workflow improvement**

**Maintenance contracts**

**Remote monitoring / maintenance**

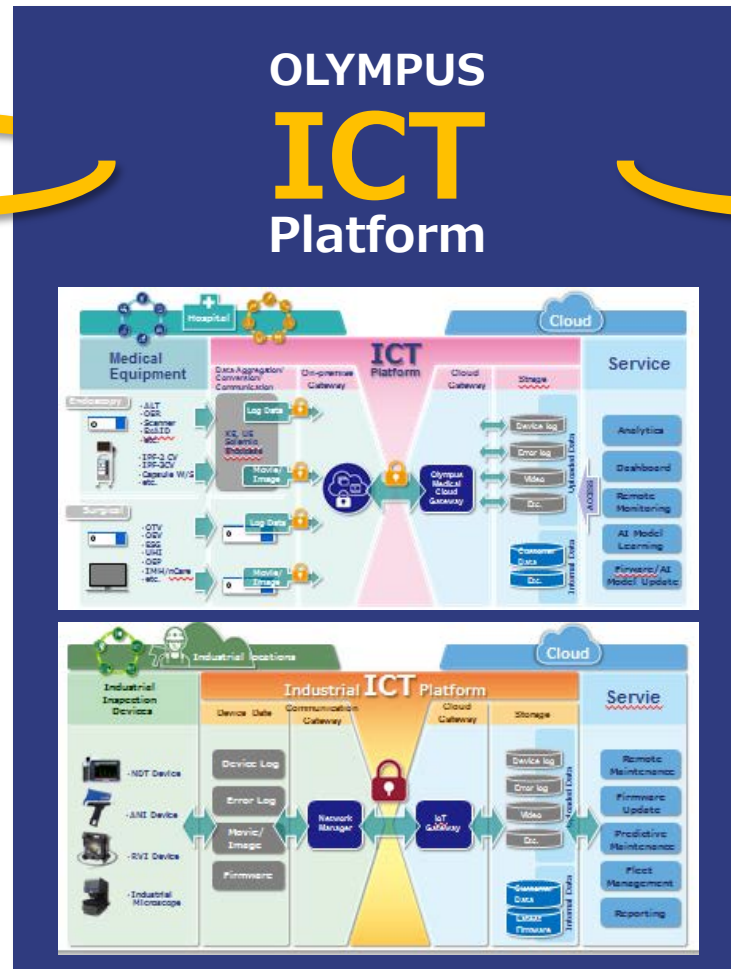
**Predictive maintenance**

**Optimal investment in devices**

Accelerate the solution development with customers and technology partners to improve the customer value, utilizing Olympus ICT-AI Platform



Specialists in  
Hospital /Healthcare,  
Industry,  
Life Science,  
and Research



AI/Solution  
Developers



etc.

**OLYMPUS**

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