CYDAR MEDICAL

SIMPLY POWERING PROGRESS

THE OPPORTUNITY

Automation and AI present many opportunities for improving health and care for hospitals to increase productivity.
The way Cydar Medical uses AI in our software solution is to bring together and understand images and data from multiple sources, extracting insights so that we can help our clinicians make faster, easier and safer decisions.

SIMPLE DEFINITIONS:

ARTIFICIAL INTELLIGENCE
Leverages computers to mimic the problem-solving and decision-making capabilities of the human mind.

AUGMENTED INTELLIGENCE
A human-centered partnership of people and AI working together to enhance decision making and experiences.

MACHINE LEARNING
The method of AI where algorithms learn from data rather than being programmed explicitly.

COMPUTER VISION
Computers and systems derive meaningful information from digital images, videos and other visual inputs.

TYPES OF ARTIFICIAL INTELLIGENCE

Current cutting-edge AI including Cydar EV Maps goes beyond traditional rules based automation.
The software performs specific tasks very well but cannot adapt to tasks it has not been designed for.
It has well defined boundaries such as 3D segmentation.

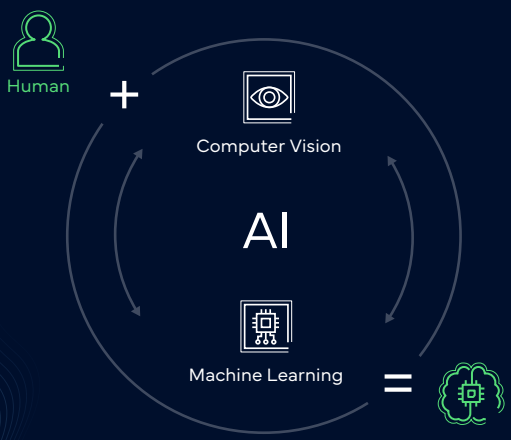
TYPES OF ARTIFICIAL INTELLIGENCE

Traditional Automation
Rules based automation

Artificial Specialized Intelligence
Data-based and performs a narrow, well-specified task extremely well

Artificial General Intelligence
Computer can match human cognitive ability or beyond

CYDAR EV MAPS USES ARTIFICIAL INTELLIGENCE, THE APPLICATION IS FOR AUGMENTED INTELLIGENCE



Augmented Intelligence
A human-centered partnership of people and AI working together to enhance decision making and experiences.

AI APPLICATIONS IN CYDAR EV MAPS

AI is used throughout Cydar EV Maps particularly during the planning and navigation phases.

01 Plan

Pre-operative processing takes a raw CT scan and segments the anatomy automatically

During ring placement, the system automatically adjusts the orientation of the ring in the ostia

02 Navigate

During navigation, ensuring the accuracy of the overlay position on the fluroscopy image