



# Klepsydra AI

**Software Framework** for highly efficient  
AI inference and data processing to enable  
**Intelligent Space Systems**

Klepsydra

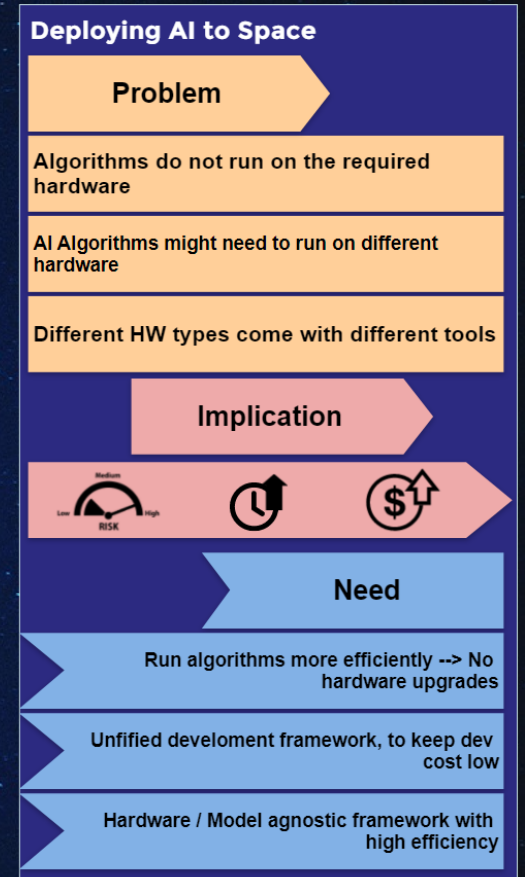
Mar 2025

# Problem

Space AI - fast growing field dealing with diverse AI ...

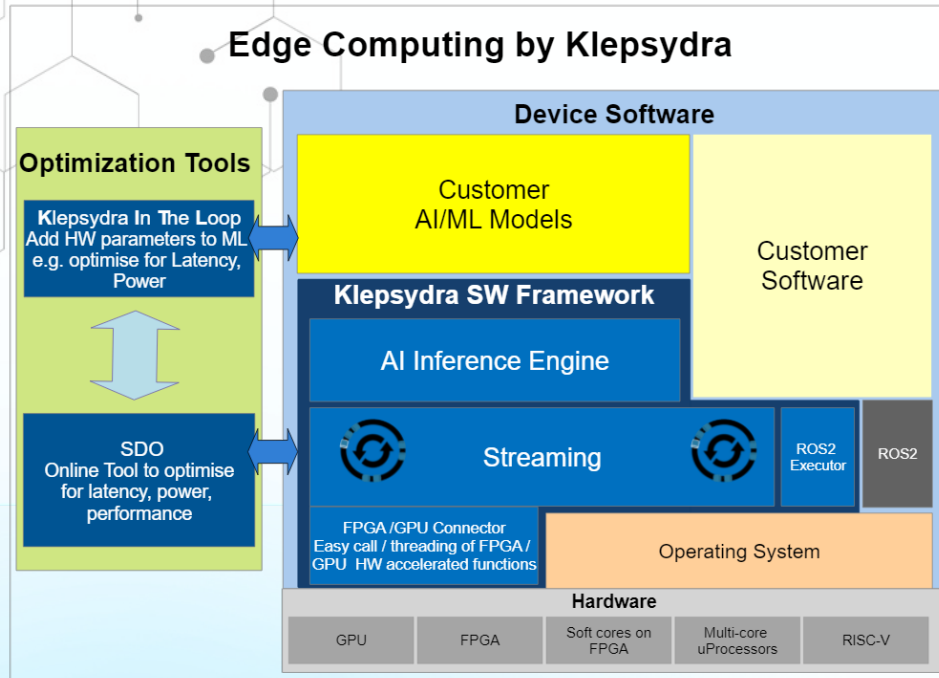


Doing this for one model and one platform is already complex



# Addressing the Need

## Klepsydra SW framework for Space computers

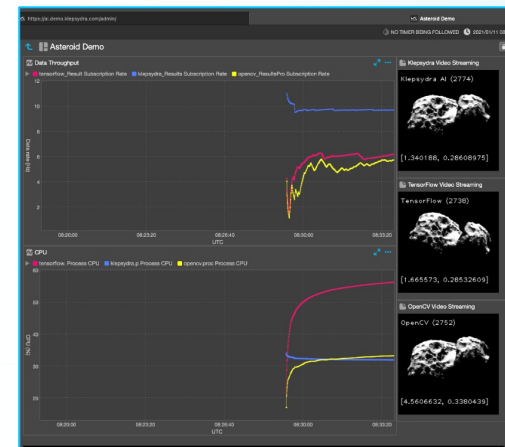


Performance is achieved by:

Lock-Free Algorithms

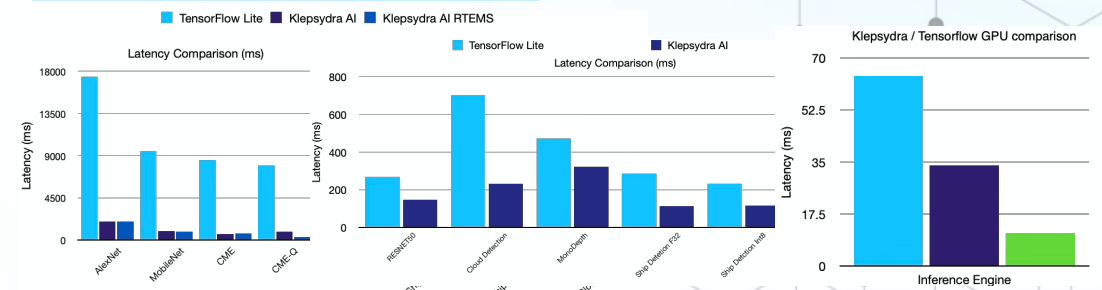
2-dim Threading Framework

### Utilize the full Potential of available Computers



	Klepsydra	TensorFlow Lite	OpenCV
Throughput	😊	😞	😞
CPU Usage	😊	😞	😊
Model Agnostic	😊	😞	😞
Hardware Agnostic	😊	😞	😞

Comparison done in a Project with ESA



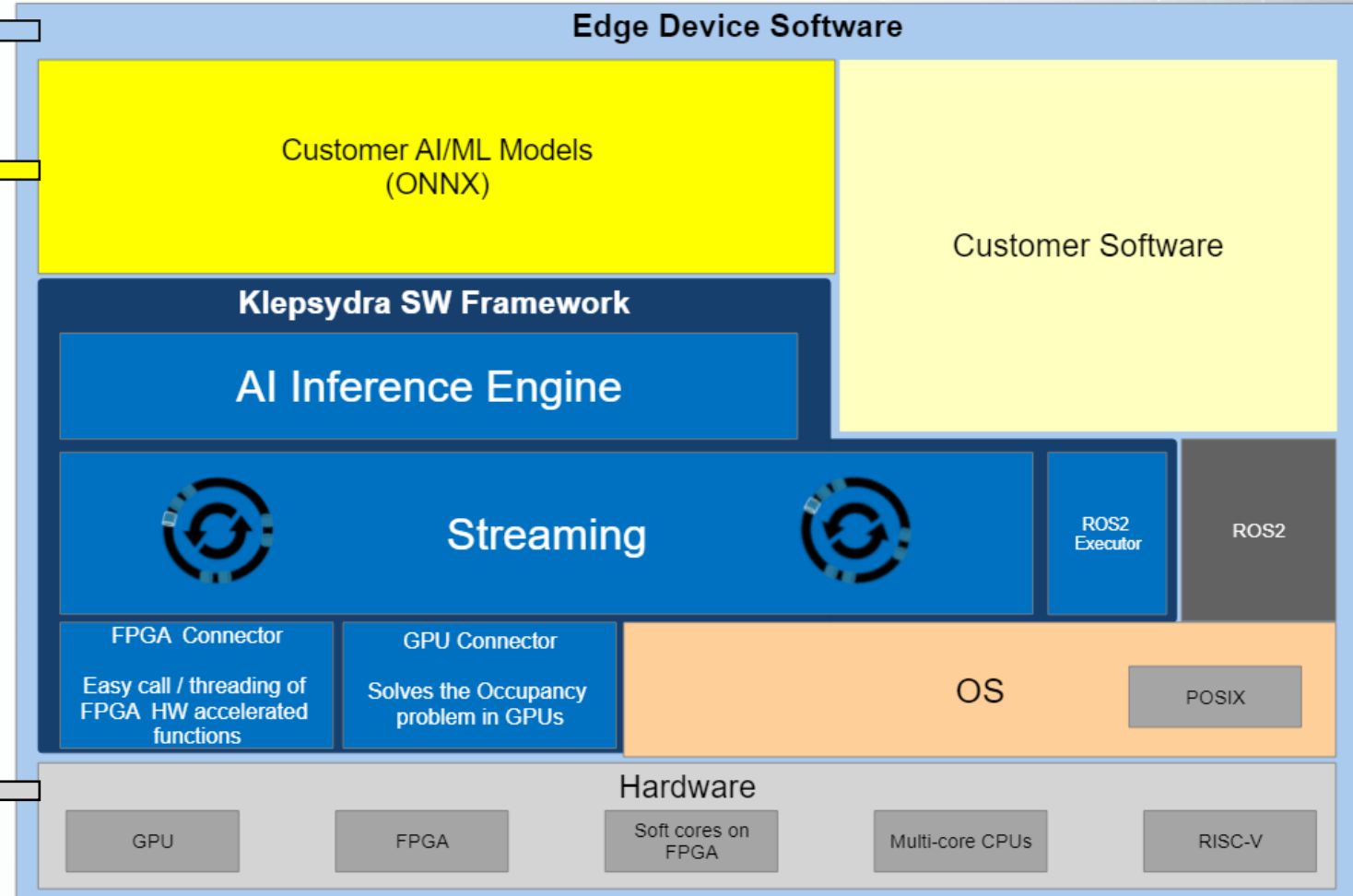
### Implement Intelligence on a larger range of Systems

# What are we looking for?

Projects using / focusing on AI on-board processing

Partner interested to bring their AI to space / run it on different space processors

Partner interested to provide a HW/SW Platform for AI -in-Space



# Company Information

## About Klepsydra

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