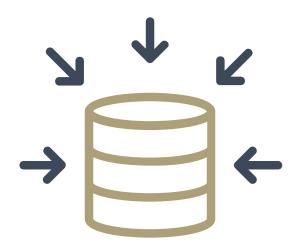


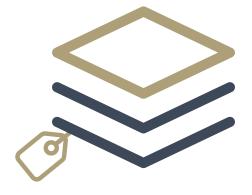
Problems in Al computer vision



Sky Engine is solving all of them!



Data acquisition is complicated and costly



Manual labeling is time consuming (plus costly labor)



Accuracy of
Al computer vision
can be greatly improved









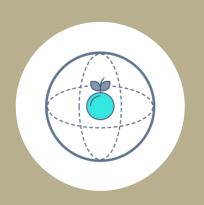
The very first **evolutionary Al engine**designed for **ray tracing** and **deep learning**for **computer vision** applications



SKY ENGINE

Workflow in SKY ENGINE AI platform

Allows building optimal, customised Al models for computer/machine vision from scratch











3D/4D modeling of any objects

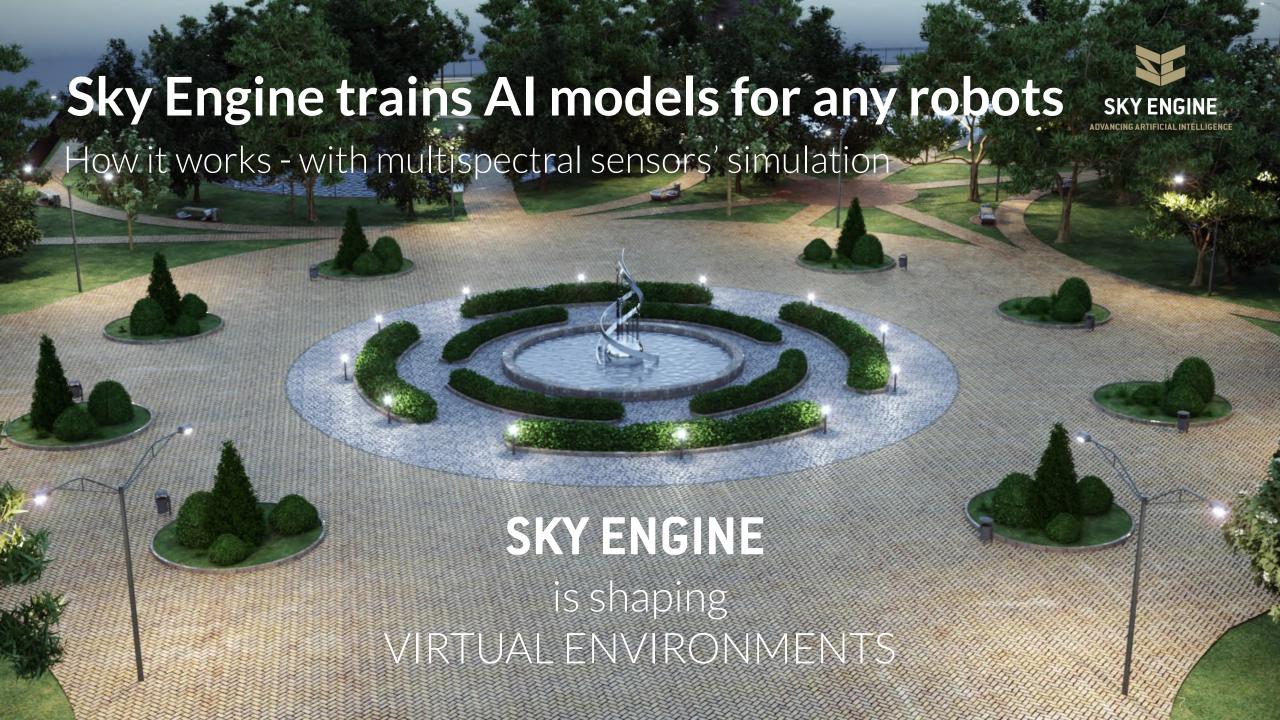
Automatic image data generation using rendering in any light

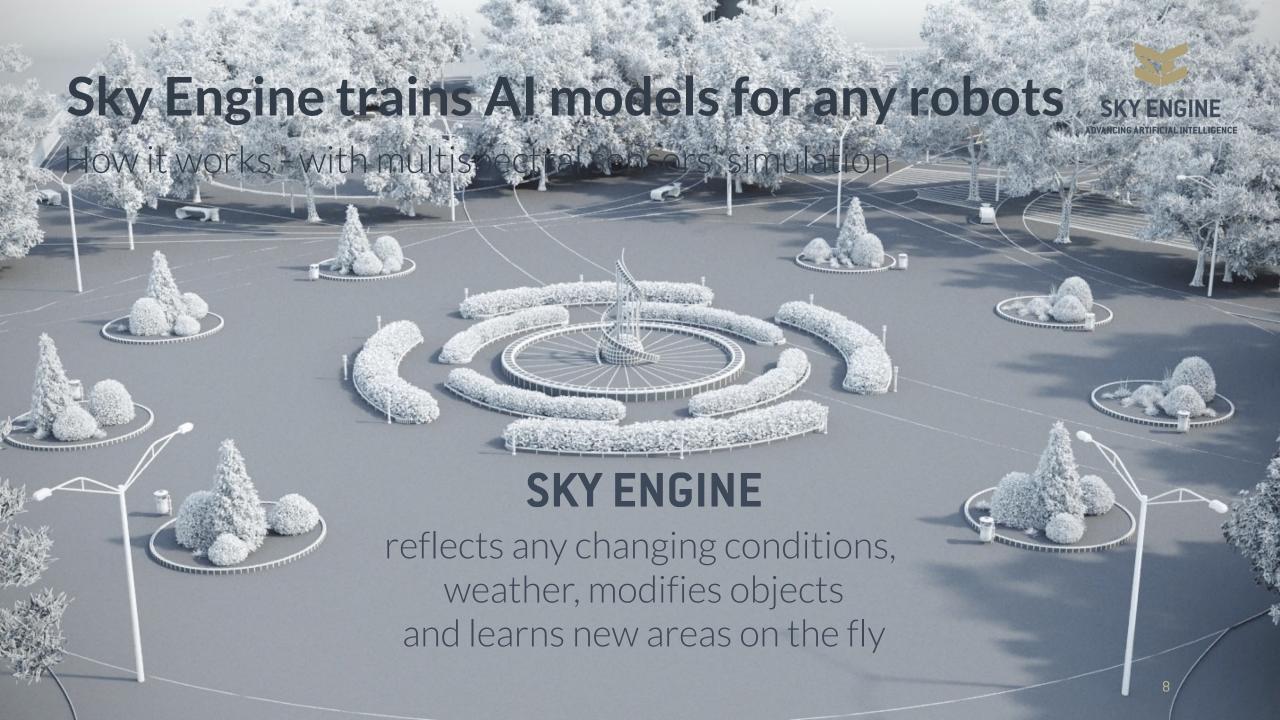
Evolutionary Deep Learning uses 3D/4D data to train Al model

Computer/Machine Vision in real-time with very high accuracy

Al business transformation is enabled by rapid performance analysis

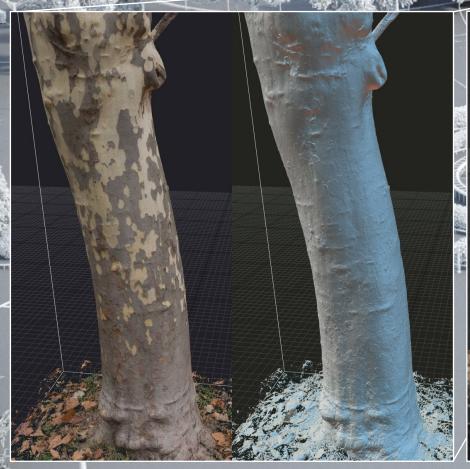


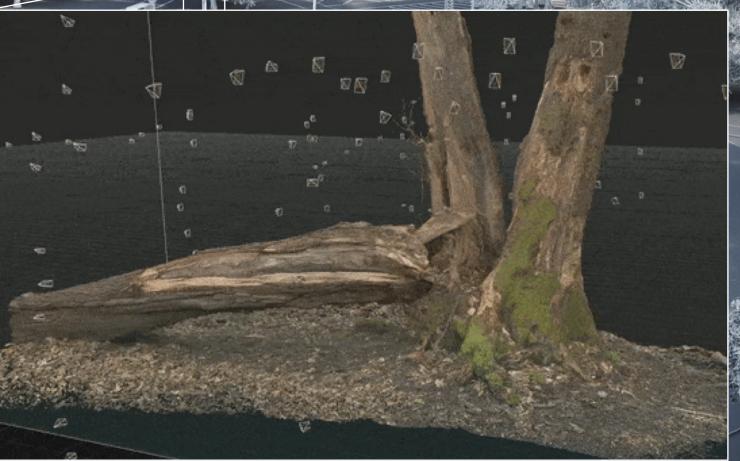


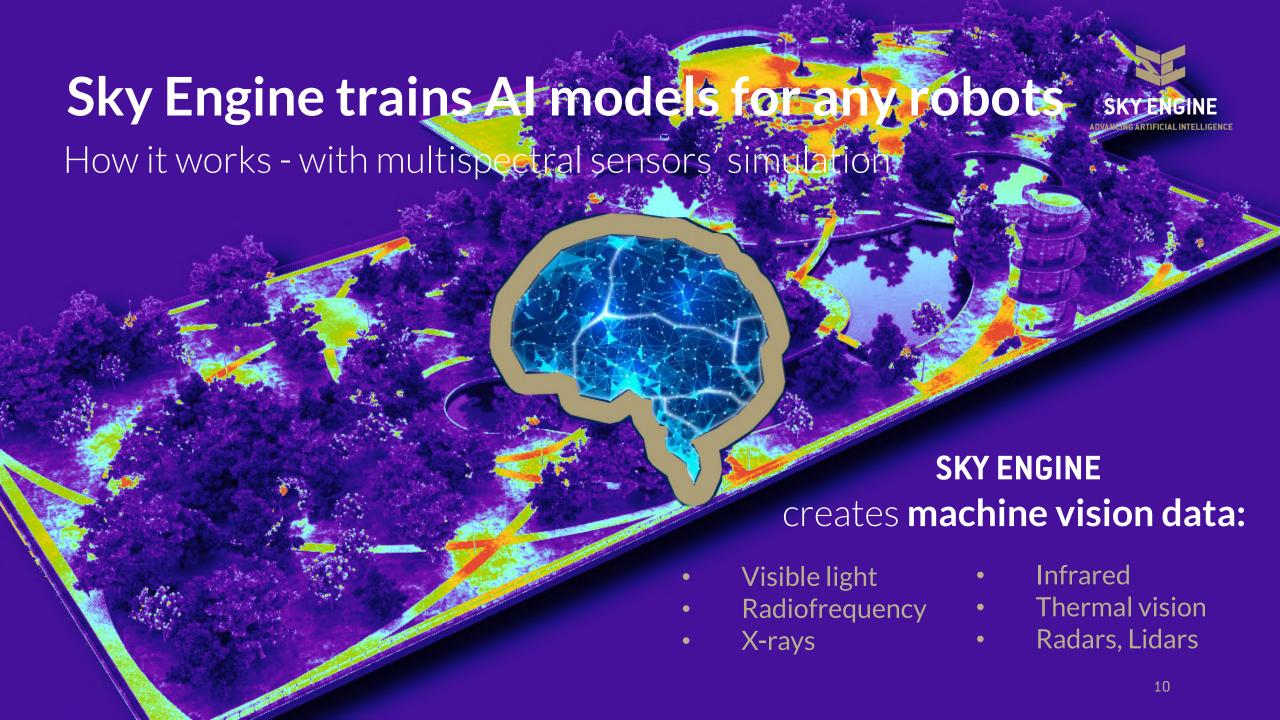


Sky Engine trains Al models for any robots SKY ENGINE

How it works - with multispectral consers simulation



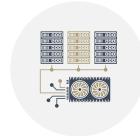






SKY ENGINE evolutionary Al platform

Allows building optimal, customised Al models for computer/machine vision from scratch



GPU ray-tracer with sets of Physics-based rendering shaders



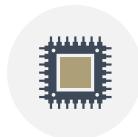
Al-based image and video post-processor



Garden of deep neural network architectures for 3D/4D training



Multi-GPU and network level training tasks scheduler



GPU memory level integration with PyTorch and TensorFlow

Deep integration of well-known technologies for Data Scientists and Software Engineers









Advantages of SKY ENGINE AI platform

Allows building optimal, customised Al models for computer/machine vision from scratch











ZERO DATA ACQUISITION

Large amounts of real imaging data are no longer necessary - decrease costs.

ZERO DATA LABELING

Human-based data labeling is no longer required.

HIGHER ACCURACY OF AI MODELS

Sky Engine is advancing AI and computer vision with improved accuracy in several industries.

SAVE ON HUMAN RESOURCES

As less human interaction is required through processing automatisation.

COSTS OPTIMISATION

Leads to huge savings on operations as Deep Learning models use synthetic data.





B2B AI solutions based on Sky Engine AlaaS platform























Selected use cases demonstration

Advancing cancer detection

- Improved disease detection rate
- General Practitioner is assisted and informed
- Shorter time to diagnosis
- Increased Patient throughput
- Cost savings for Patients and Customers
- Data stays with Customer
- Avoid GDPR issues



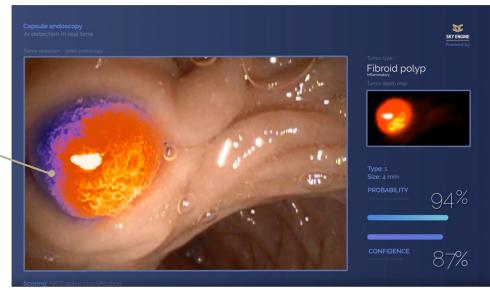


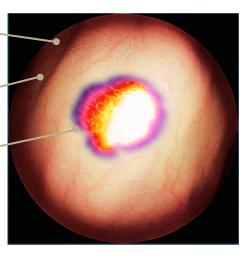
Sky Engine AI cancer detection on real-time endoscopy video

Synthetic intestines generated in Sky Engine

GI tract 4D modeling including motion

3D information is used in Deep Learning

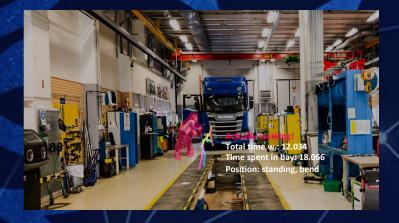






Selected use cases demonstration

Al analytics in truck workshops







- Service revenue optimization
- Vehicles working bay AI analytics
- Heatmaps and statistics
- Workers and tools tracking





Selected use cases demonstration

Self-learning robots

in public

spaces





SKY ENGINE

- Robots guidance in public areas
- Safety of humans and robots
 - Learning from the experience
- Logistics optimization
- Equipment efficiency
- Highly scalable

Selected use cases demonstration







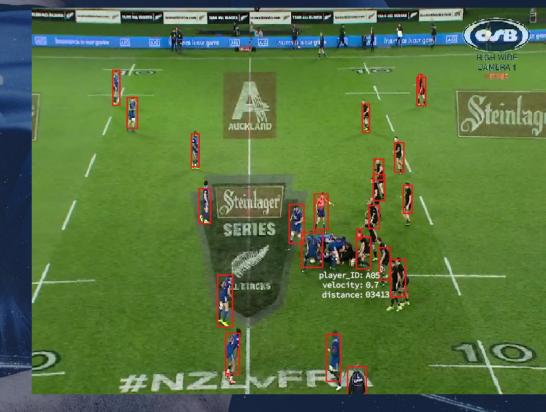
Next generation

live game

experience

With real-time automated data collection.

Powered by SKY ENGINE Computer Vision and Artificial Intelligence.





Partners

































Sky Engine offices around the globe

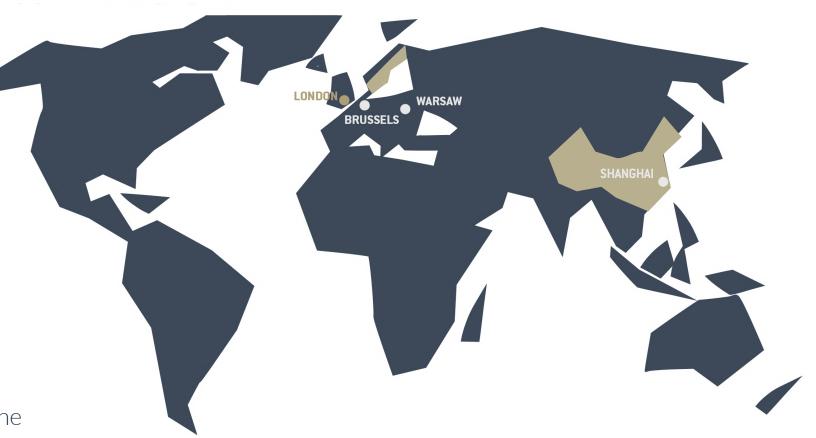
Meet us!

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THANK YOU



ADVANCING ARTIFICIAL INTELLIGENCE

www.SkyEngine.Al

