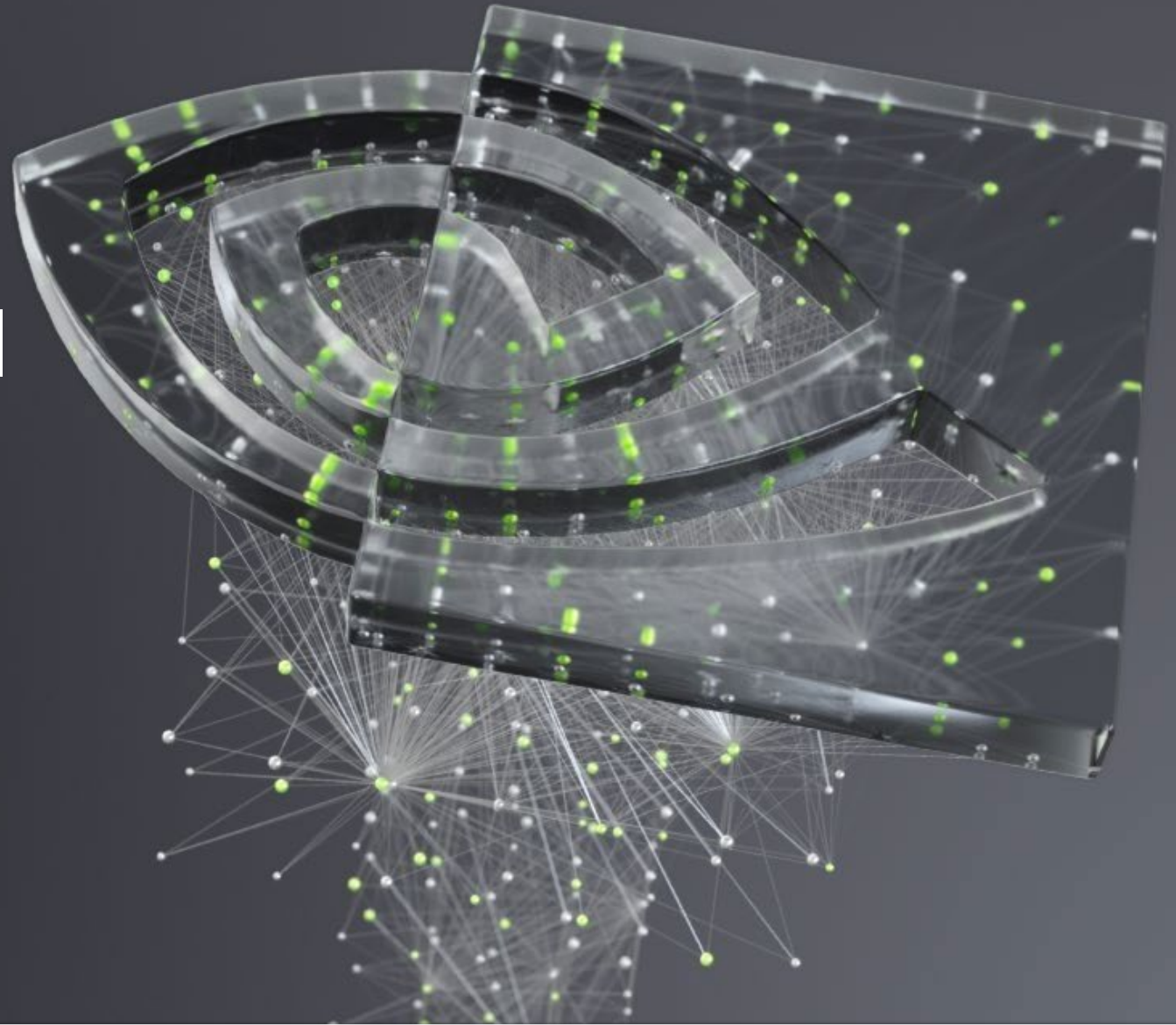


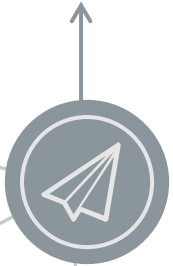
High Performance Computing (HPC) & AI

Kouris Spyros
Country Manager
CBS IT CYPRUS



Cosmos Group S.A.

One of the main **IT & Telecommunications providers** in Greece & Cyprus



Focusing in both **Private** and **Public Sector**



Cosmos Group has **220 employees** and in **2021** reached **45€ mil** revenue



Located in **Athens, Thessaloniki** and in **Nicosia** (Cyprus)



Group consists of the mother company **Cosmos Business Systems S.A.**, and two subsidiaries, **Cosmos Consulting S.A.** and **CBS IT (Cyprus) LTD**



Business Units



IT Infrastructure



**Telecommunication
& Networking**



Security



**Software
& Consulting Services**



Services

Υλοποιημένα Έργα



ΓΕΝΙΚΟ ΝΟΣΟΚΟΜΕΙΟ
ΛΕΥΚΩΣΙΑΣ
IT Infrastructure



Counter Automation
System- CAS
Software



Wifi σε Δημόσια κτίρια &
Δήμους - Κοινοότητες
Telecoms



ΚΕΑΔ
Security



Press and Information
Office - PIO
Ψηφιοποίηση Αρχείου



HPC Cyprus Institute
4 projects

Κύριες Συνεργασίες

Platinum Business Partner
IBM

DELL Technologies
TITANIUM PARTNER



AMPLIFY
Power Partner

Infrastructure Solutions Partner
Gold
Lenovo

PC Partner
Gold
Lenovo

CISCO
Partner
Gold Integrator



AVAYA Edge
Sapphire

ORACLE
Silver Partner

NVIDIA
ELITE PARTNER

paloalto
NETWORKS

Microsoft
Solutions Partner
Modern Work

Microsoft
Partner
Gold Messaging
Gold Enterprise Resource Planning
Gold Project and Portfolio Management
Gold Communications

Microsoft
Partner
Gold Application Development
Gold Collaboration and Content
Gold Cloud Platform
Gold Datacenter

Microsoft
Partner
Gold Windows and Devices
Gold Small and Midmarket Cloud Solutions
Gold Cloud Productivity
Silver Application Integration

NAV
Microsoft
Dynamics

vmware
PARTNER
ENTERPRISE SOLUTION PROVIDER

velocloud

Symantec
SECURE ONE
SILVER

eset

Sophos
Silver Partner

VERITAS
Partner Force
Silver Partner

veeam
PROPARTNER
Silver

kaspersky
Registered Partner

ENGAGE
FOR FINET SELECT PARTNER

Check Point
SOFTWARE TECHNOLOGIES LTD.

NICE AUTHORIZED PARTNER

CITRIX
Partner
Silver Solution Advisor

AUTODESK
Reseller

Silver Peak
Gold Partner

think-cell

intel partner
Gold

CHANNEL PARTNER PROGRAM
PRIVILEGED
LEXMARK

IPC

NetApp
Silver Partner

MICRO FOCUS
Gold Partner

snow

stromasys
legacy server emulation

Red Hat

Registered Partner
Life is On
APC

EPSON
EXCEED YOUR VISION

Adobe
CERTIFIED RESELLER

fonolo

High Performance Computing



High speeds

HPC systems can perform **massive amounts** of calculations **very quickly**



Lower cost

Faster process →
Faster application run
→ **Quick answers**
Save time & money.



Reduced physical testing



Fault tolerance

Part of the system **fails** →
Entire HPC system doesn't fail



On-premise or cloud

AI – A NEW INSTRUMENT FOR SCIENCE

HPC

> +40 years of algorithms based on first principles theory.

> Proven statistical models for

AI

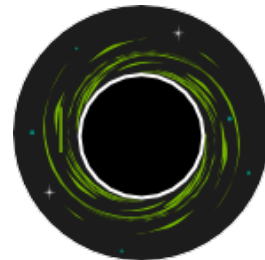
> Improve predictive accuracy and faster response time.

> previously unmanageable data sets.

Dramatically Improves Accuracy and Time-to-Solution



Commercially viable fusion energy



Understanding cosmological dark energy and matter



Clinically viable precision medicine



Improvement and validation of the Standard Model of Physics



Climate/weather forecasts with ultra-high fidelity



COSMOS

BUSINESS SYSTEMS AEBE



NVIDIA

CBS is the only
Elite DGX Solution
provider in
GREECE & CYPRUS

Certification
Virtualization &
Compute DGX

Υλοποιημένα Έργα ΗΡC



ΗΡC Cyprus Institute



Αριστοτέλειο Πανεπιστήμιο
Θεσσαλονίκης



Πανεπιστήμιο Κρήτης



Πανεπιστήμιο Πειραιά



Πανεπιστήμιο Δυτικής
Αττικής



Πανεπιστήμιο Θεσσαλίας

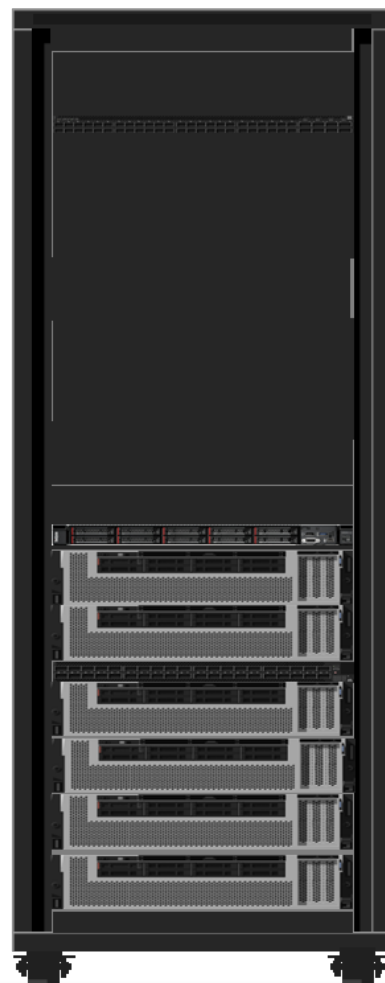


HPC Cluster

0,468 PFlops
GPU Peak per rack / 6 nodes

0,0258 PFlops
CPU Peak per rack / 6 nodes

Total : 0,4938 PFlops
GPU + CPU Peak per rack / 6 nodes



1x Mellanox AS4610-54T 1U
165W typical power consumption



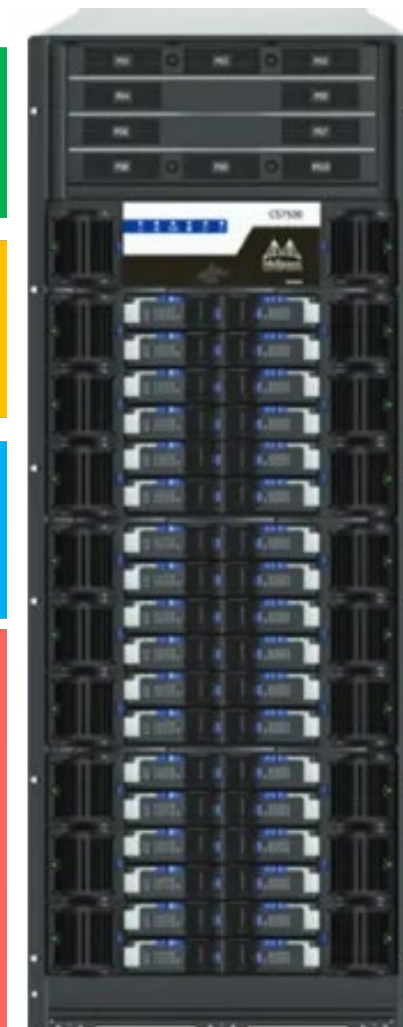
1x Mellanox QM8790 1U
325W typical power consumption



1x SR630 V2 1U
Front-end/post-processing node



6x SR670 v2 3U
A100 GPU compute nodes





Thank You

Kouris Spyros

Country Manager CBS IT CYPRUS



Cosmos Business Systems S.A. Group