



Nebula Cloud for Higher Education Institutions

Virtual Cloud Centre of Excellence for Education, Trainings, Hands-on learning, Demo's and POCs

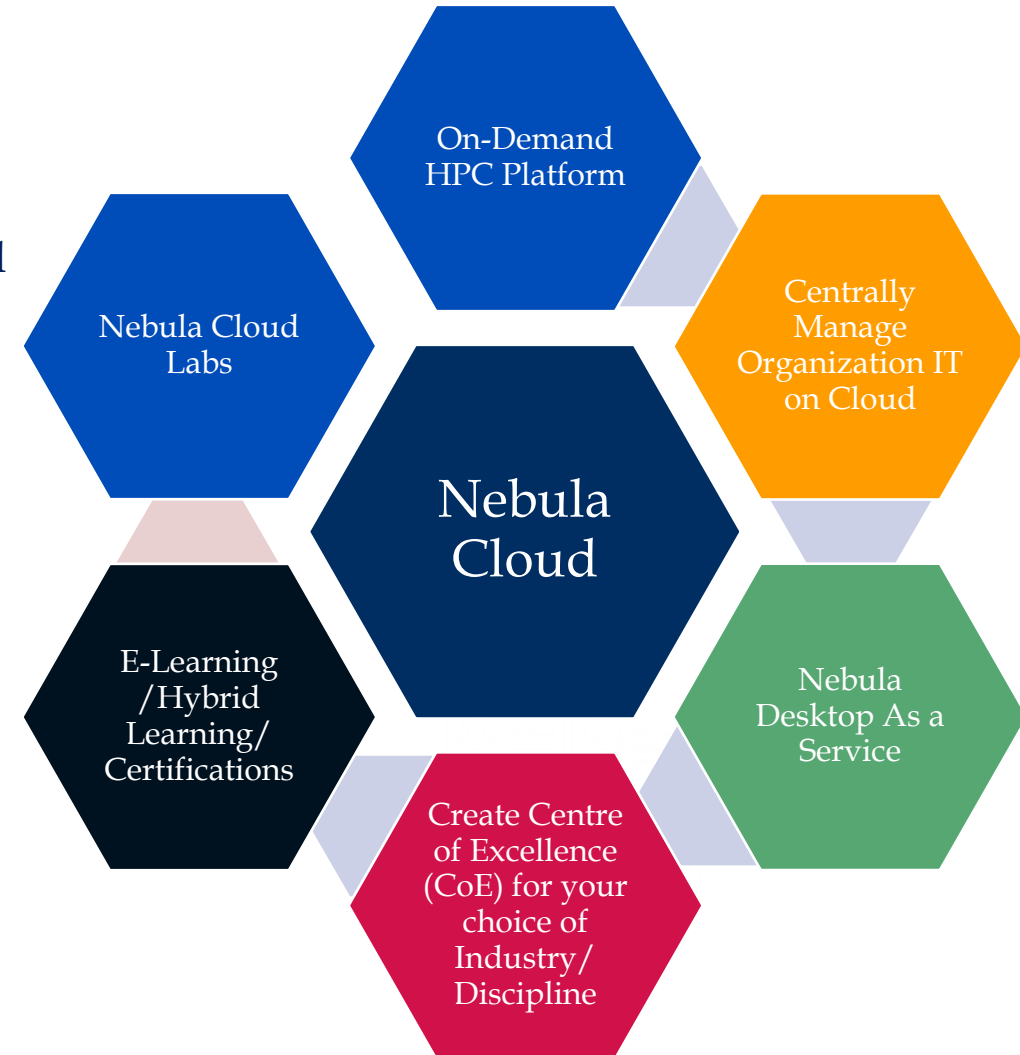


Microsoft

What is Virtual Cloud Centre of Excellence (CCoE)?

Ready to use Digital Transformation and Workplace Automation platform for organizations.

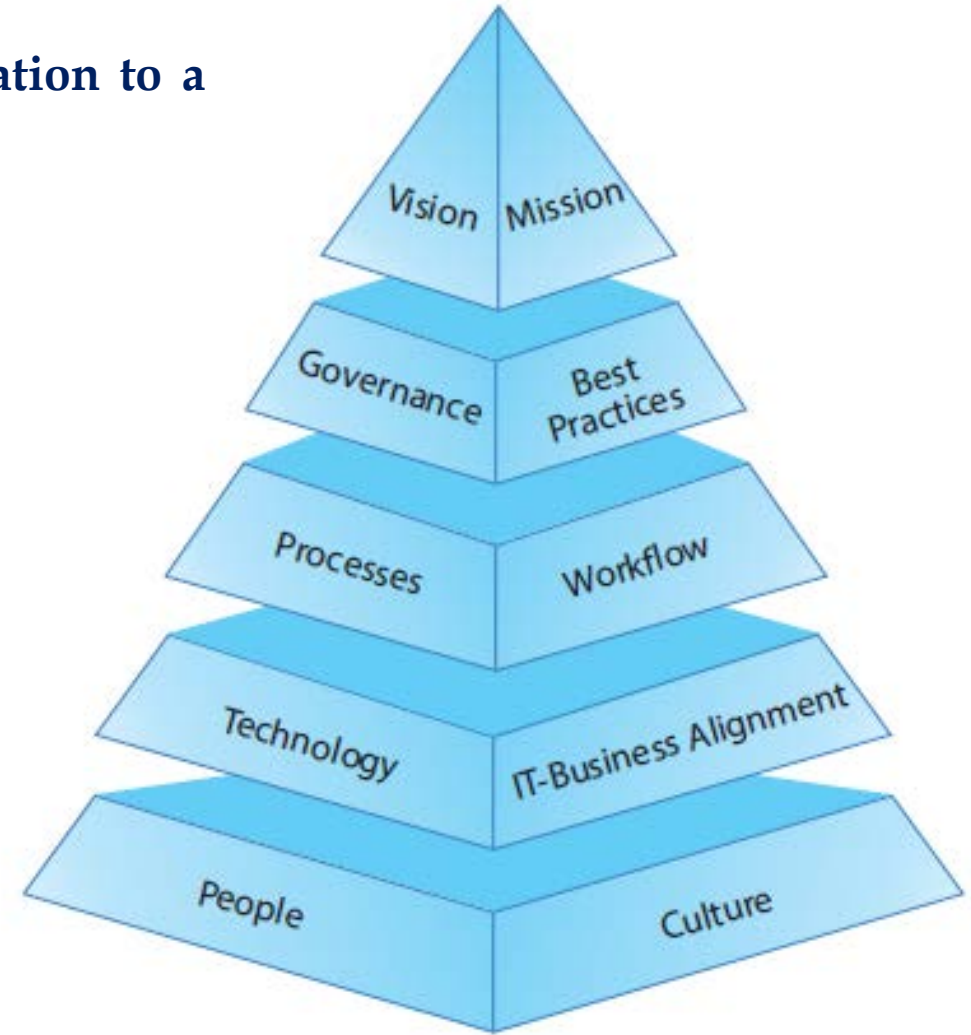
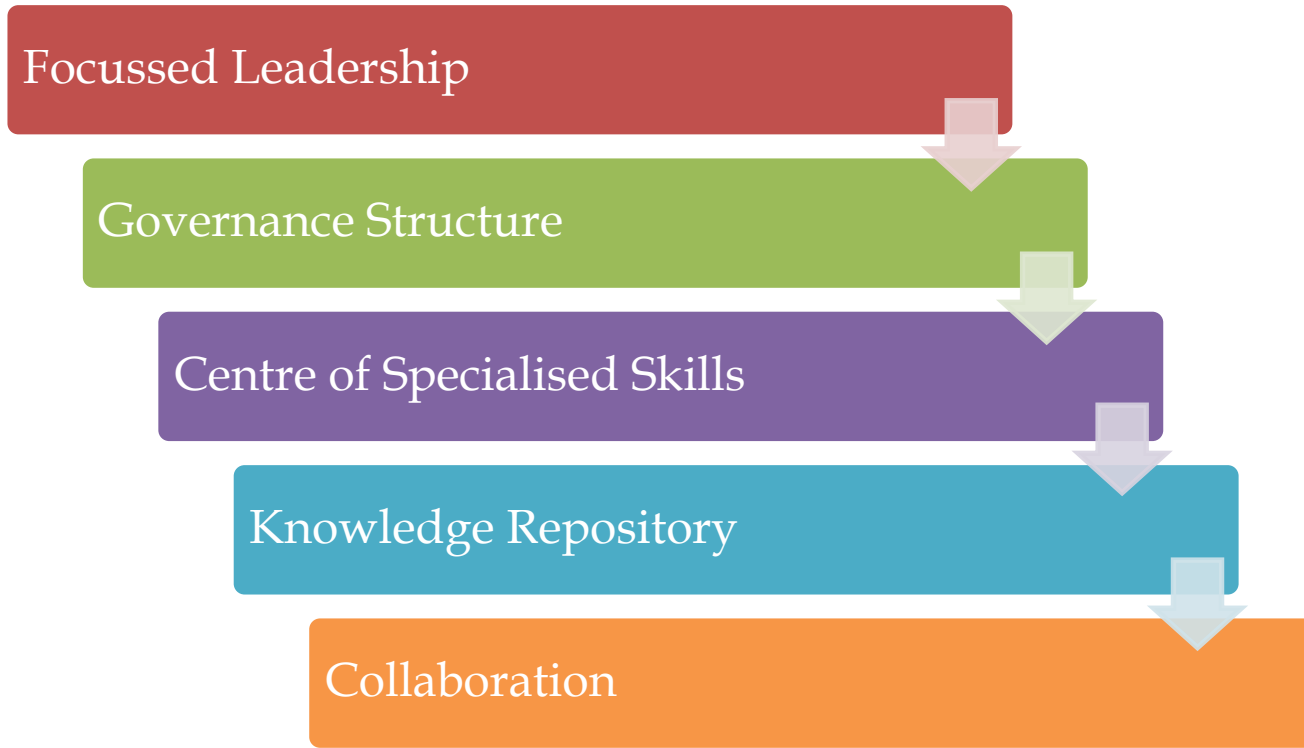
- ❖ Nebula Cloud CCoE offers dynamic collaborative access to engineering, design, simulation and data analytics technology, plus scalable HPC and cloud resources, all in one place.
- ❖ It is built to Discover, Monitor, Automate, Transform, Collaborate and Manage the Operations for IT Service Management, Cloud Management, Digital Workplace Automation, Trainings and many more from a single unified environment.
- ❖ Delivered as a 100% white-labelled and localized platform.
- ❖ Cloudify various departments within University and centrally manage IT from a single pane of glass.
- ❖ Introduce new offerings, create CoE's, skill development programs through trainings, workshops, bootcamps, courses on various technology areas for internal and external users
- ❖ Conduct Research, Consultancy and other services via CCoE



CoE Framework

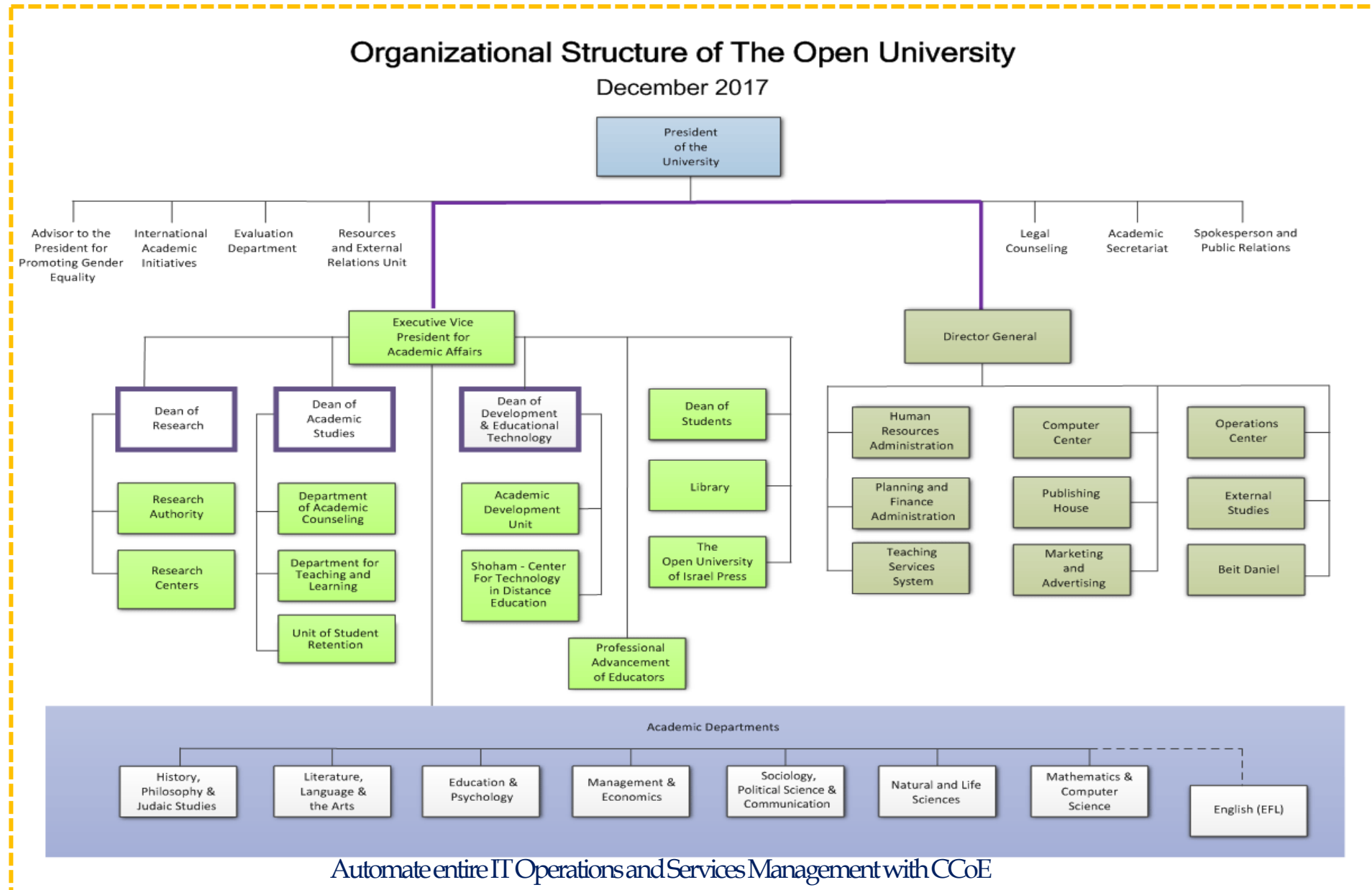
Five pillars essential to sustain an organization wide transformation to a CoE model.

Some of the key components of a successful CoE are:



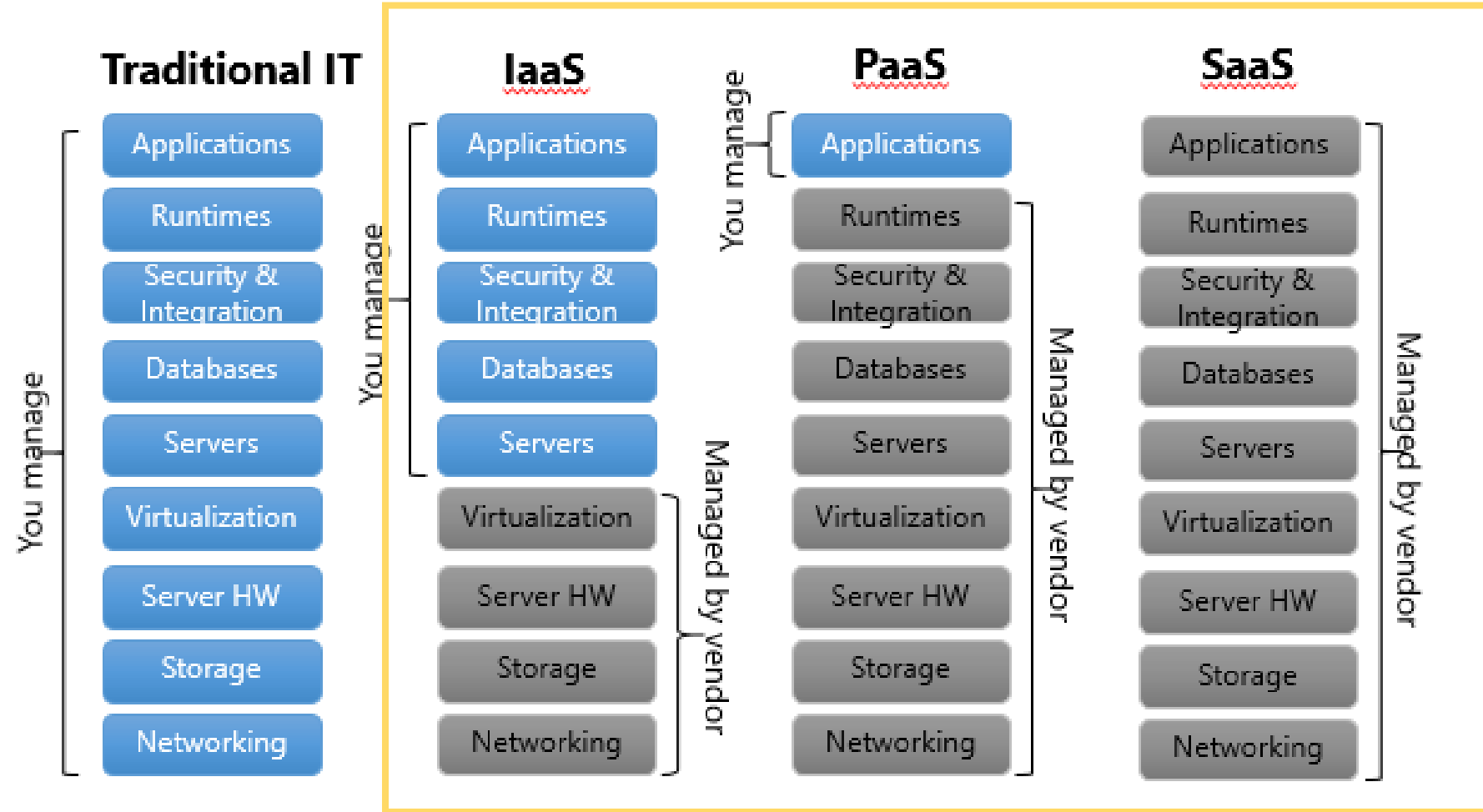
CoE Framework

Digital Transformation Initiative with CCoE



Current and Future state of IT with CCoE

Put your entire IT footprint on autopilot mode with CCoE by Nebula Cloud



Current IT

Future Cloudified IT - Powered by CCoE of Nebula Cloud

Before CCoE

After CCoE

What's possible with Nebula Cloud's CCoE?

Infrastructure Automation

Enable your developers to deploy scalable, reliable and highly available environments for end-to-end applications.

Application Management

One-click installation, support and unified management for most popular ISV Software, languages, frameworks and CMSs.

DevOps Automation

Out of the box tools that would otherwise take months to build by a dedicated team of DevOps Engineers.

Workplace Automation

Supports 250+ enterprise Big Data, Data Analytics and Simulation applications, optimized for HPC in the cloud.

Subscription billing & invoicing

Subscription billing for all services offered via your cloud

Support, ticketing & service operations

Integrated helpdesk and support tools
Reseller Portal, Reseller management with dashboards & reports

How are we helping Educational Institutions?

Nebula Cloud Labs enables educational institutions to set up real-world technology environments for students to practice and get hands-on experience on real-life projects. Also enables Product Demos, POCs, Ready-to-use Sand-box environments across Engineering, Scientific and IT Disciplines, all in one integrated platform.

Nebula Cloud Labs for Everyone:



CLOUD LABS FOR UPSKILLING/RESKILLING

Upskill or Reskill your employees on the latest technologies with Nebula cloud labs.

Run enterprise commercial Engineering and IT projects using HPC and GPU Computing

CLOUD LABS, CLOUD CCOE FOR EDUCATIONAL INSTITUTIONS

Make your students industry ready by providing Nebula cloud labs on latest technology stacks.

CLOUD LABS FOR ONLINE LEARNING PROVIDERS

Enable students by providing hands-on experience with Nebula cloud labs.

CLOUD LABS FOR DEMOs & POCs

Make building and presenting sales demos simpler, more consistent, and more efficient.

Deliver complex demos and POCs, and sales enablement training for cross platform software solutions on AWS, Azure and GCP.

The challenges faced by educational institutions are



Capital expense in setting up the CoE/lab quickly changes to operational expenses in maintenance, support and training of the staff.



Recurring operational, support and maintenance expenses eat into the revenue stream and profits.



Network and computer administration takes on a life of its own once the capex costs are accounted for.



Finding and retaining the right kind of talent for lab maintenance is a cascading challenge.



Setting up time of a new lab for each batch is time consuming and resource intensive.



Unavailability of HPC/ GPU Computing and wide range of labs for new technologies.

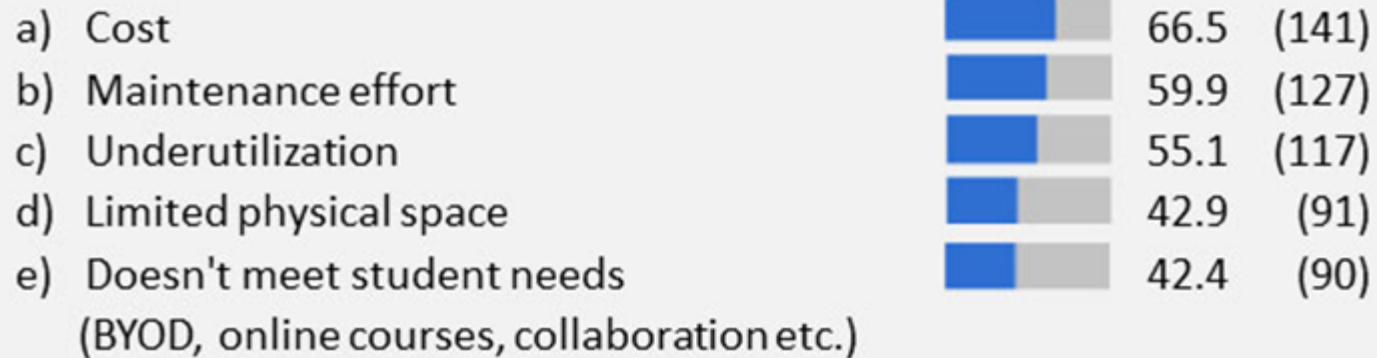


Lab utilization and governance with periodic reporting and insights.

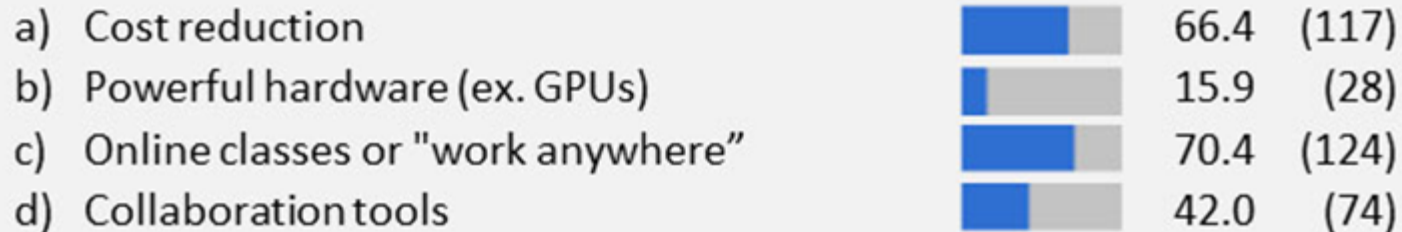
A case study with survey responses for computer lab challenges and priorities among Top 20 universities:

What challenges are you facing with your computer lab?

(Select all that apply)



What are the highest priorities for your computer lab?



The True Cost of the Traditional CoE/ Lab Environments

How do the costs of cloud-based labs stack up against the costs of traditional labs? and what other factors should influence this decision?

Any good ROI analysis starts by analyzing the true cost of traditional computer labs:



Machine and equipment costs: These will vary based on the PC performance and the depreciation period used, but they tend to be quite expensive.



Personnel costs: Time spent assisting users, troubleshooting, imaging, maintaining units, and installing software adds up quickly.



Repair and upgrade costs: In addition to routine maintenance, there are always breakages and other unexpected expenses. Even something as simple as coffee spilled on a keyboard can require a great deal of work (and money) to fix.



Software costs: License fees and the outright purchase of operating systems, antivirus protection, Deep Freeze, and other core programs also consume budget.



Real estate costs: Space on campus is at a premium, and computer labs (which are underused most of the year) take up valuable real estate. University leadership may want to transform these single-use spaces into something more flexible and collaborative.

Nebula Cloud Labs is the Way to Go

A single window platform to address organization's all Software, IT infrastructure and Project Delivery needs

Solution

NEBULA CLOUD LABS - Single window multi-cloud enabled HPC platform to address all business needs. Associated products to increase flexibility, digitalisation, scalability and reduce capital block.

FIND. TRY. BUY. DEPLOY. USE.

Nebula Cloud Marketplace Platform is a digital catalog with hundreds of software listings from Open Source and Independent Software Vendors (ISVs) that make it easy to find, test, buy, deploy, and use software that runs on AWS, Azure and nCloud Swiss.

GIS	Remote Sensing	Digital Image Processing	CAD, CAM & CAE
BIM	Aeronautical	LiDAR, UAV & Drones	PLM
Business Intelligence	Big Data	Analytics	IoT
ML/AI	3D Modelling	Geo-sciences	Water Resources
Design & Architecture	CFD & Simulation	HPC & GPU	Many More...

Nebula Cloud Labs Highlights

Access and Availability

- 24 X 7 access to labs from anywhere
- Accessible on any device
- Browser-based seamless access to lab infrastructure
- On-demand availability of labs
- Single sign-on

Support

- Self-service to the learners via Nebula Cloud portal
- Support for virtual, physical machine or SaaS labs
- 24X7 support

Scalability

- Scalable to any number of users
- Extendible to any user across the world

Automation

- Schedule the lab switch on and switch off
- Lab request and approval
- Lab creation and setup once configuration is selected

Managed Labs

- Lab management and maintenance is done by Nebula Cloud
- No intervention required from lab managers

Billing Flexibility

- Flexible billing models based on pay as you go or annual commitment
- Chargeback to different departments / functions

Branding

- White label the platform as per your brand guidelines
- Custom create templates aligned with your brand

Extensive Labs

- Widest range of labs
- Focus on Artificial Intelligence, Deep Learning, Machine Learning and Big Data Labs
- Choose from our extensive catalog of ready to use labs or work with our team to create a bespoke lab to meet your requirements
- Access to ever-growing catalog of latest labs

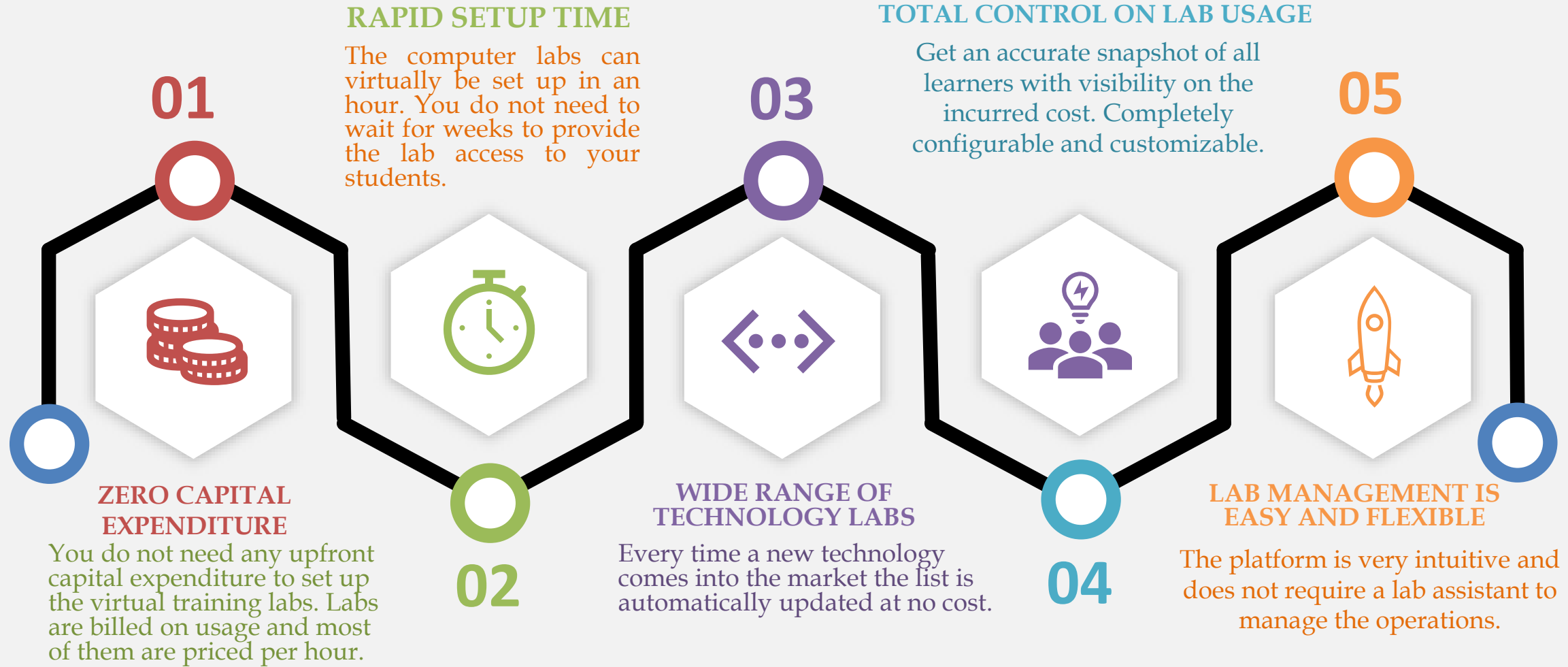
Lab Provisioning

- Provision in bulk
- Provision from marketplace or through APIs
- Switch on and switch off labs in bulk
- Automated approvals

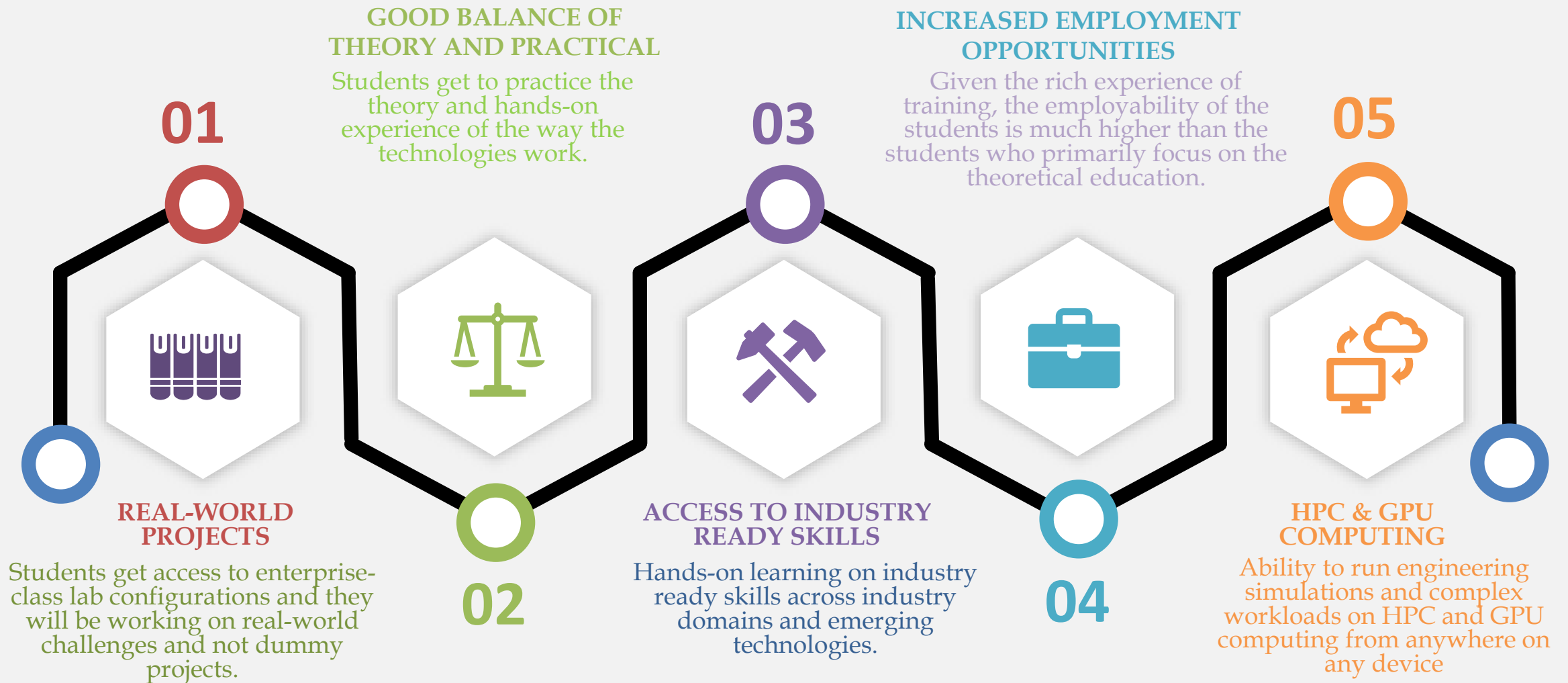
Fully Secured

- Single sign-on
- Secured cloud environment
- Client IT policy based alignment

Benefits for Educational & Training Institutions



Benefits for Students, Freshers and Faculty



Additional Benefits, with Nebula Cloud Labs

Do you know why cloud-based virtual labs have become an increasingly popular trend among university IT departments?

- Learning becomes more engaging and interactive, as students follow along on their own devices.
- Students can collaborate on group assignments virtually, without leaving their browser.
- Off-campus students and researchers can access needed tools from anywhere there's an internet connection.
- Universities can better adapt to working students' needs and hours.
- There's greater support for online courses, interactive teaching methods, and flipped/hybrid classes.
- IT staff can quickly adjust to changing requirements, cut down on installation times, and provide a controlled testing environment for off-campus students.

Digital Workplace Deployment Options

Solutions for every business need and situation

Nebula Cloud is one such way to experience virtual desktop infrastructure with preconfigured enterprise software and High Performance Computing (HPC) resources via its single window multi-cloud enabled DaaS platform. We have designed our solution to be simple and enterprise-ready.

Single Workbench

Dedicated Virtual Machines for main users with critical usage requirements.



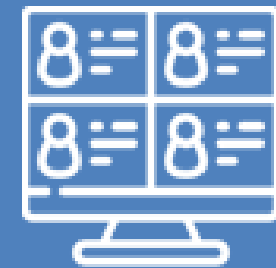
Pooled Workbench

Assign a Single Desktop to a pool of users and efficiently manage the load of your virtual machines



Multi-Session Workbench

Target lower costs by pooling multi-session resources and reduce the number of virtual machines in your environment.



Case Study: Cloud Centre of Excellence (CCoE) and Cloud Labs

Establishment of CCoE and Cloudify various departments at WUD.

The screenshot displays the website for the World University of Design (WUD). The header includes the WUD logo, navigation links for CCoE, WUD Cloud Labs, Cloud, Services, and About, a search bar, and contact options. The main banner features a large image of a university building with the text 'WORLD UNIVERSITY OF DESIGN' and 'Cloud Center Of Excellence (CCoE) For Architecture, Design, Visual Arts, Multi-Media And Data Sciences'. Two prominent buttons, 'TRY FOR FREE' and 'LEARN MORE', are overlaid on the banner. A 'Sample Scenario' button is also visible. Below the banner is a row of seven category tiles: Trial Room, Architecture Labs, Design Labs, Fashion Design, Visual Arts, Data Sciences, and MultiMedia, each with a representative icon.

*Demo Environment for CCoE and Cloud Labs at WUD can be accessed here: <https://nebulacloud.dev/>

Case Study: Cloud Centre of Excellence (CCoE) and Cloud Labs

Establishment of CCoE and Cloudify various departments at GNIOT.

GNIOT
GROUP OF INSTITUTIONS

CCoE Your Cloud Labs Cloud Services About

Search any product

Contact Us Log In

GREATER NOIDA INSTITUTE OF TECHNOLOGY CCOE

Cloud Centre Of Excellence (CCoE) For Analytics, DevOps, Engineering, IoT, ML/AI, HPC And Simulation

2001 ESTABLISHED

[SIGN-UP FREE](#) [LEARN MORE](#)

[Sample Scenario](#)

- Trial Room
- Architecture Labs
- DevOps Labs
- Engineering Labs
- Visual Effects
- Data Sciences
- MultiMedia

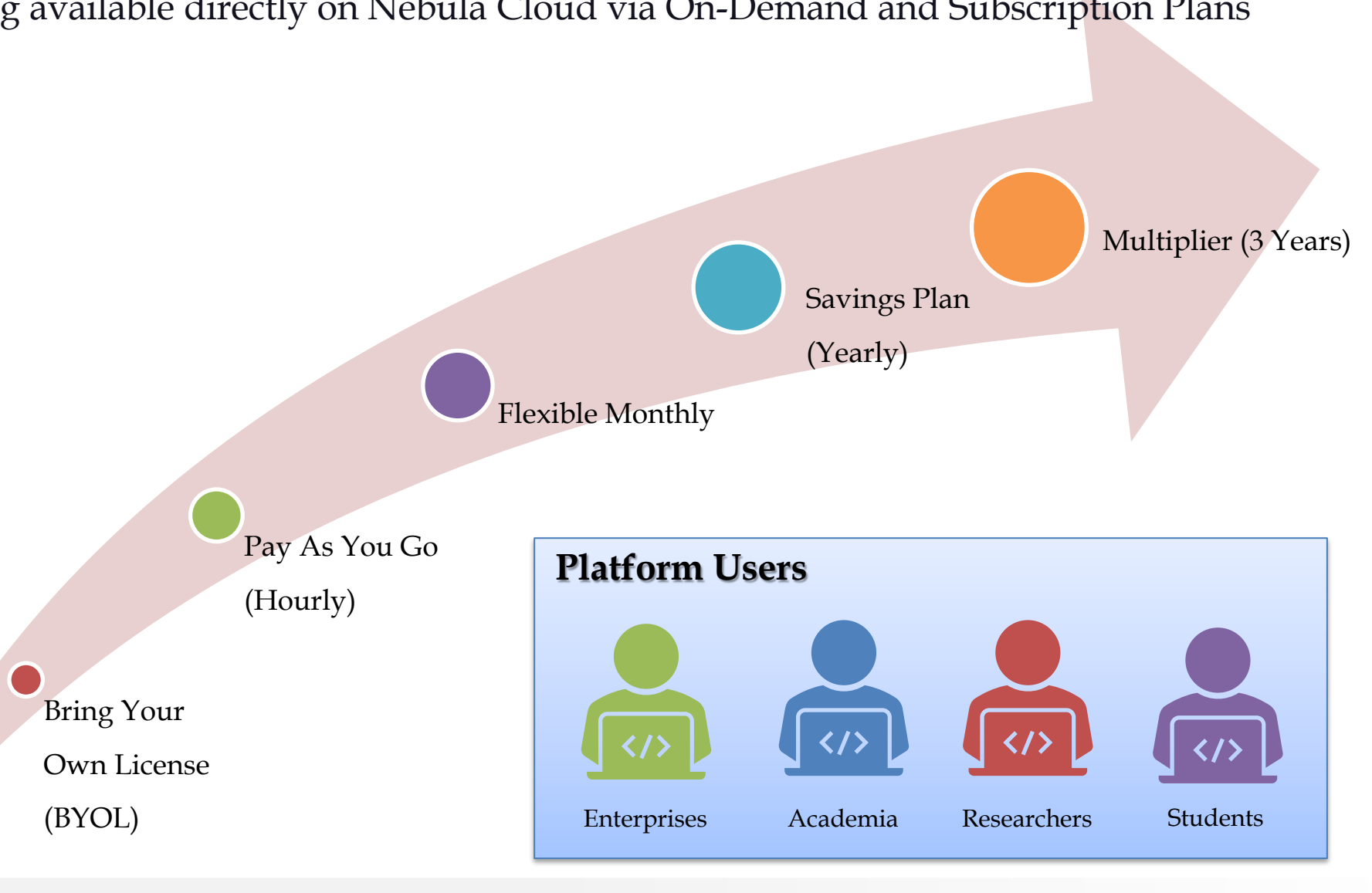
*Demo Environment for CCoE and Cloud Labs at GNIOT can be accessed here: <https://nebulacloud.dev/>

Nebula Cloud - Business Model (IaaS, PaaS, SaaS, DaaS) – Option 1

Consumption based pricing available directly on Nebula Cloud via On-Demand and Subscription Plans



Nebula Cloud Platform
(Software, Data & Cloud)



Platform Users

Enterprises Academia Researchers Students

Custom Branding of Nebula Cloud Labs/ CCoE – Option 2

Ready to use Cloud Centre of Excellence (CCoE) and Cloud Labs for Digital Transformation



**Nebula Cloud Platform As a Service
(Software, Data & Cloud)**

Product	Unit Price without Taxes
Nebula Cloud Platform As a Service (Nebula Cloud PaaS) Commercial New - Annual Subscription	
Nebula Cloud Platform As a Service (Nebula Cloud PaaS) Commercial New - 3 Year Subscription	

- Redeemable Cloud Credits worth Rs.2,50,000 (Validity: 1 year)
- White label the platform as per your brand guidelines
- Platform management and maintenance is done by Nebula Cloud
- GST and Applicable local taxes extra.
- Basic Support Included for Nebula PaaS
- Cloud Managed Services charges are extra.
- Cloud Charges based on actuals (post redemption of cloud credits)
- ISV software licensing cost – Not Included

Nebula Desktop as a Service (DaaS) Platform - Single Tenant Architecture

University

Department X1

Laboratory Y1

Sample Scenario



4 Core, 16GB RAM
500 GB SSD
1500 GB HDD

Student 1



Student 2



Student 3



Student 4



Student 5



Student 6



Student 7



Student 8



Student 9



Student 10



Student 11



Student 12



Student 13



Student 14



Student 15



4 Core, 16GB RAM 100 GB SSD 100 GB HDD EACH STUDENT VIRTUAL MACHINE

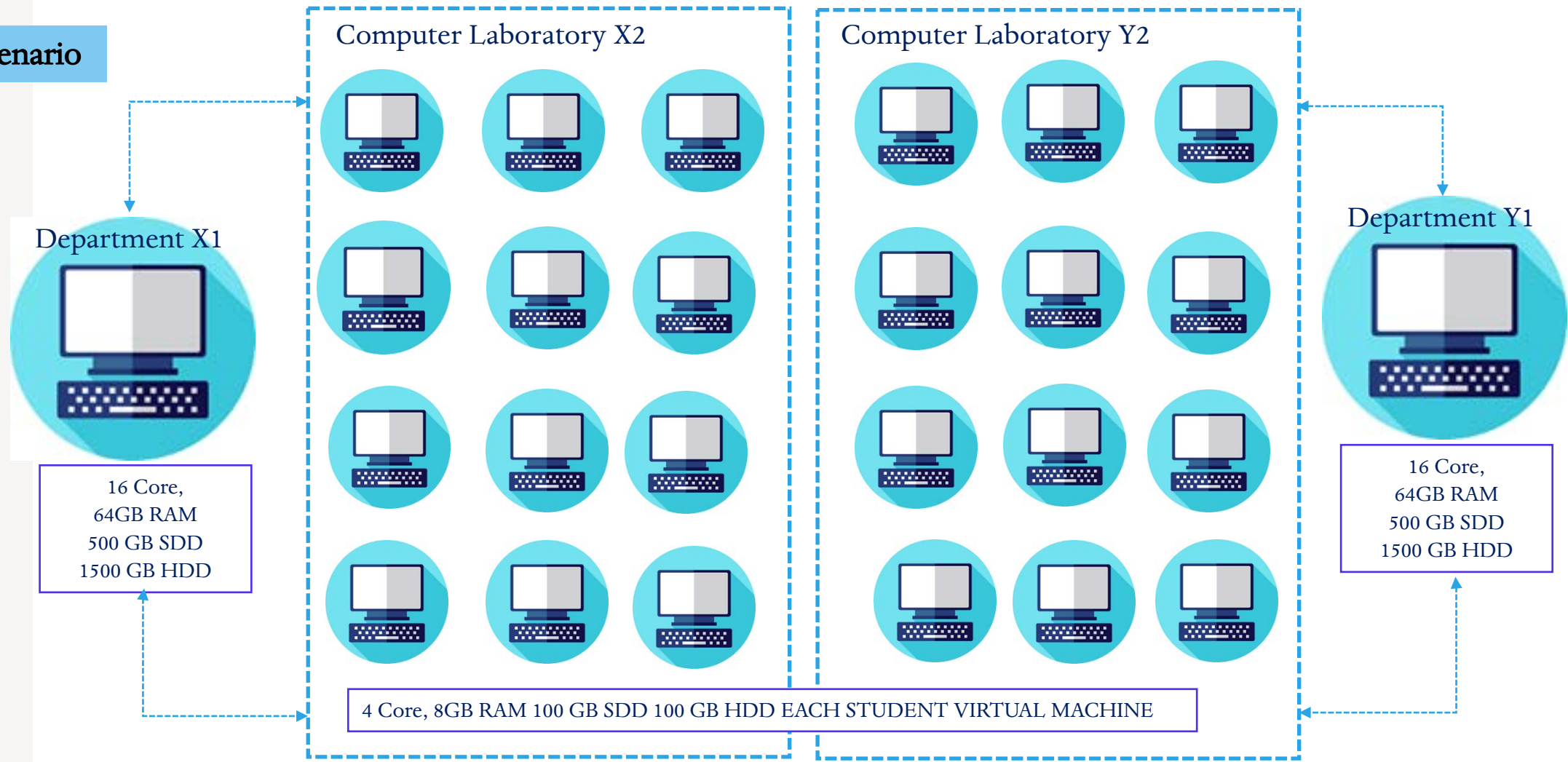
Nebula Desktop as a Service (DaaS) Platform – Multi-Session Single Tenant Architecture

University

Department X1, Y1

Laboratory X2, Y2

Sample Scenario



Some of Our Premium Partners

There is an opportunity for every customer success



CAD,CAM,CAE



BI & Analytics



CAD,CAM,CAE



GIS,3D,Earth Sciences



CAD,CAM,CAE,PLM,
3D



Photogrammetry



GIS,BIM,3D



Design,Modelling



Earth Sciences



CAM,CAE,PLM,3D



BI, Big Data, ML, AI



BI, Data Sciences

***over 250 curated products to support enterprises and academia in all aspects of engineering**

Nebula Cloud Managed Services

We want to join in your journey to success

Cloud Managed Services

Manage the post environment setup 24×7 with proactive monitoring of your environment.

Cloud Migration

Build a suitable migration strategy with increased security, scalability and instant availability of data.

Cloud Consulting

Adopt cloud seamlessly with our cloud road map, architecture basis the industry best practices.

Cloud Integration

Build and orchestrate a comprehensive integration strategy, encompassing Application Integration, B2B integration and cloud integration.

Cloud Devops

Automates and standardizes the processes for better operational efficiency, improved deployment quality.

Cloud Security

Principle of least privilege using access controls for users and systems, Advanced Firewall settings and adhering to cloud security best practices.

Technical Support and SLAs

Severity	Criteria	Response Time
Critical	Causes a severe impact to business operations (e.g., critical business processes are disabled)	Six (6) business hours
	No workaround available	
High	Causes a noncritical impact to business operations (e.g., significant degradation of quality or handling of data)	Eight (8) business hours
	No stable workaround available	
Medium	Causes a minor impact to business operations	Two (2) business days
Routine	Causes little or no impact to business operations	Two (2) business days

Summary

- We power businesses of all kinds with the smart technology solutions and services they need to accelerate their intelligent transformation.
- Nebula Cloud's range of technology solutions enables people to bring their best, no matter where they are or what they do.
- Our mission is to provide highly powerful simulation platforms that empower the world's engineers, scientists, developers, and CIO and IT professionals to design innovative products, develop robust applications, and transform IT into unified, agile environments.



Our Vision

Our vision is to enable and empower businesses with innovative digital technologies and reduce their IT investments, realize their true TCO and ROI, and help them grow globally without any boundaries.

We want to become one of the top 10 cloud HPC providers by 2025

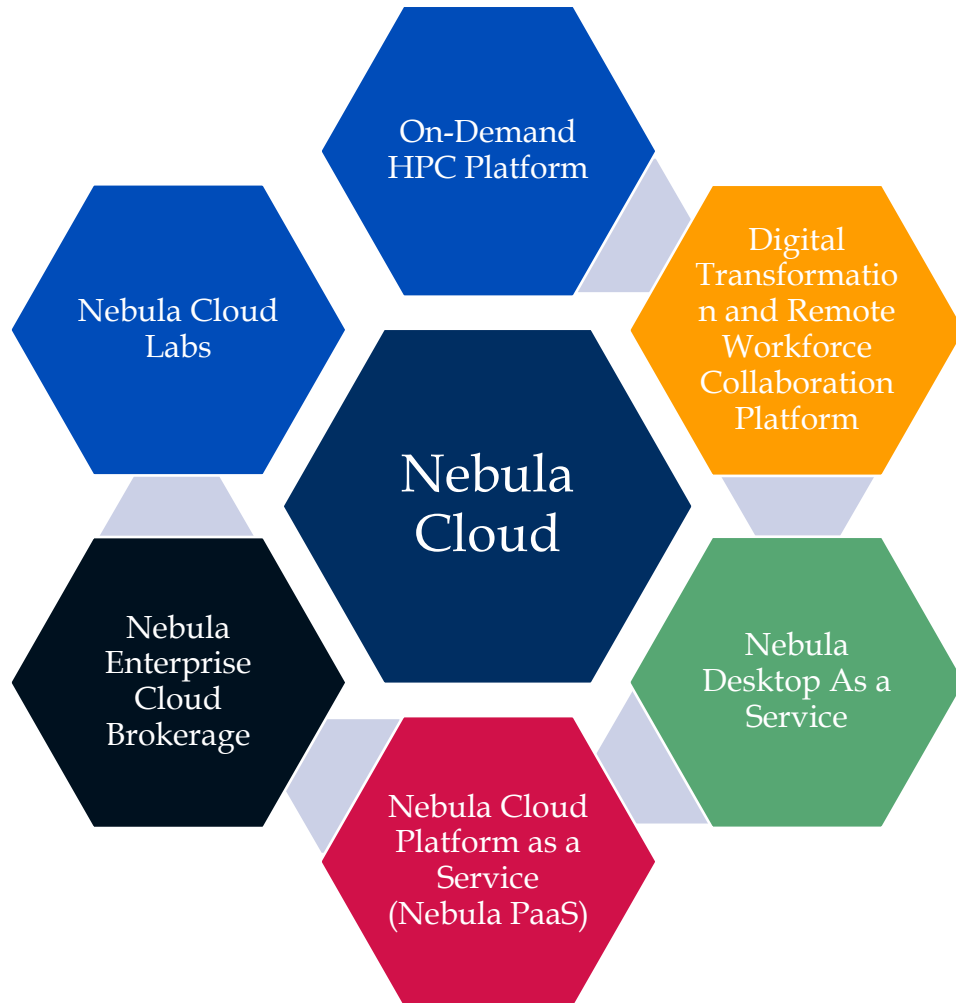
10 000
START-UPS
A NASSCOM Initiative

Erasmus
Centre for
Entrepreneurship

Erasmus



START-UP DENMARK



THANK YOU!

Founded by IIT Kanpur Alumnus, GVB Geomatics Private limited is a NASSCOM incubated Technology Start-up into Cloud computing and Location intelligence space, Head Quartered in Gurgaon, Haryana, India.

Please send your business enquiries to: sales@nebulacloud.in