



## “Estudos de casos de HPC em Cloud feitos no Brasil”

**Ricardo Lugão**

HPC Vertical Director

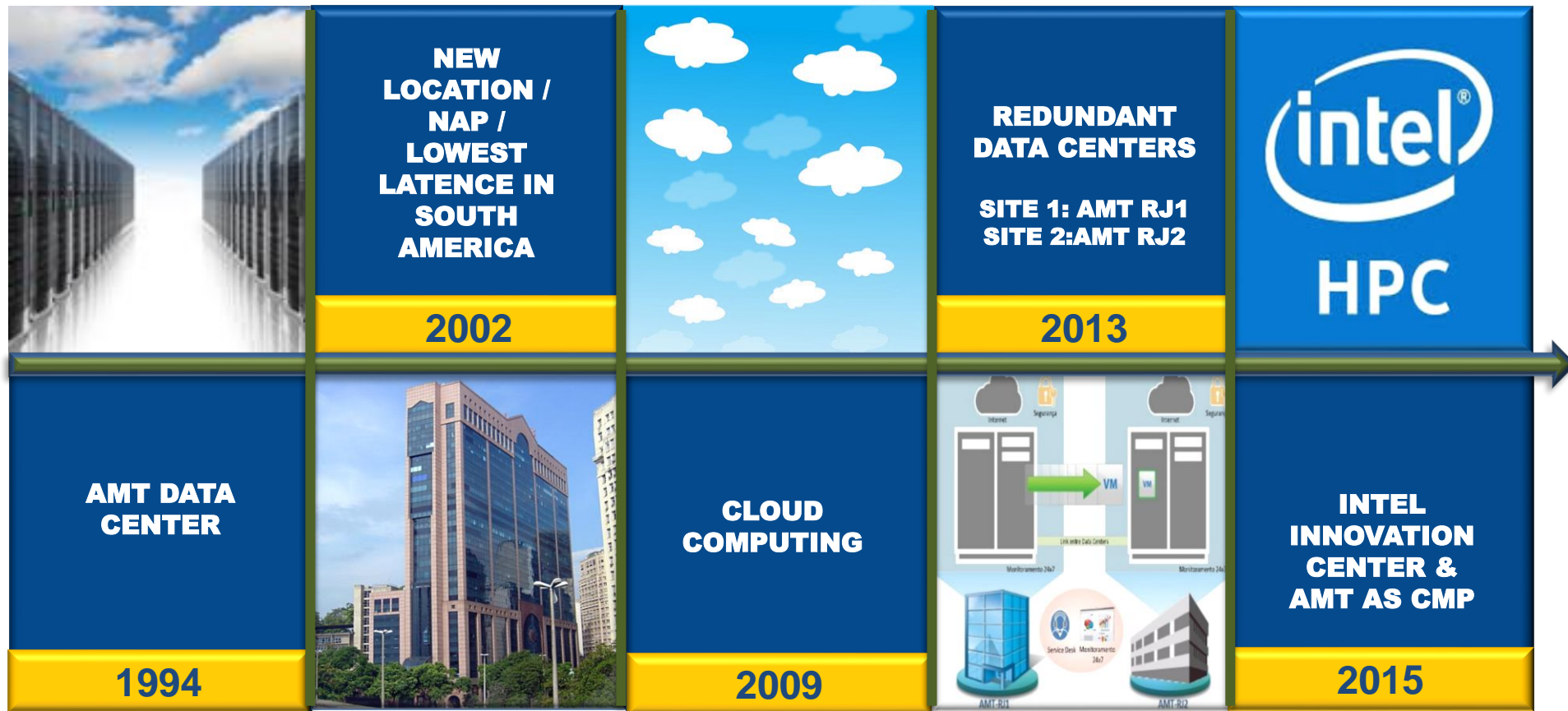
[rlugao@amt.com.br](mailto:rlugao@amt.com.br)

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[www.amt.com.br](http://www.amt.com.br)

# ABOUT AMT

## Key Timeline Milestones



# WHAT WE DO

HPC

Infrastructure as a Service

Code Optimization



NOC Operation

Connectivity Management

IT Infrastructure Architecture

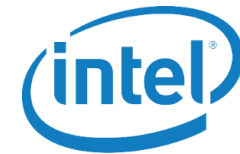
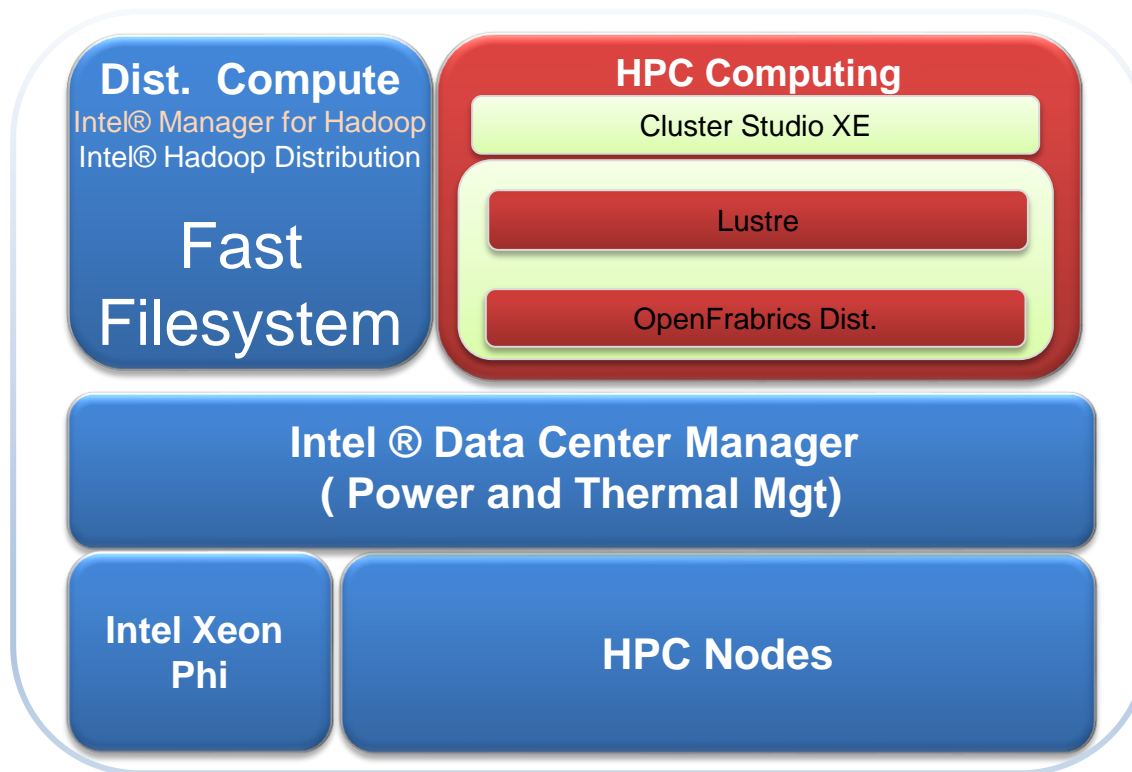
IT Professional Services Outsourcing



# INTEL INNOVATION CENTER & AMT

AMT was selected by Intel to host, operate and manage the first Intel Innovation Center of South America.

## Intel Innovation Center – HPC Environment



## Main Goals:

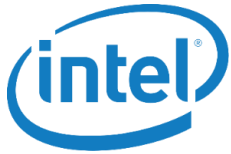
- **Validate the HPC as a Service offering**
- **Code Optimization Service**

# CASES

Customer	Industry	Applications	Scope
*	Manufacturing	MSC Nastran - CAI	HPCaaS
Fiocruz	Healthcare	Trinity - Transcriptome Assembly	HPCaaS
*	Media	3D Rendering	HPCaaS
*	Oil & Gas	Seismic / Filesystem Lustre	HPCaaS
HSL	Healthcare	Genoma Sequence	HPCaaS
LNCC	Government	Protein Sequence Analysis	HPCaaS & CM



# PARTNERS



# LOCATIONS

## AMT RJ - HQ



### AMT Rio de Janeiro – Headquarters

Av. Rio Branco, 1 - 2003  
Centro - Rio de Janeiro - RJ.  
CEP 20090-003



### AMT São Paulo

R. Padre João Manuel 1212  
conj. 82 e 83  
Jardins - São Paulo - SP  
CEP 01411-000



### AMT USA

415 Oakmead Parkway  
Sunnyvale – Ca  
94085  
+ 1 831 625-6314



# WORKSHOP OTIMIZAÇÃO DE CÓDIGO

18/10 - 8:00 – 12:00 - USP

Workshop de Otimização de Código

Prof. José Camata

Informações sobre Workshops de Otimização de Código:

**[www.amt.com.br](http://www.amt.com.br)**





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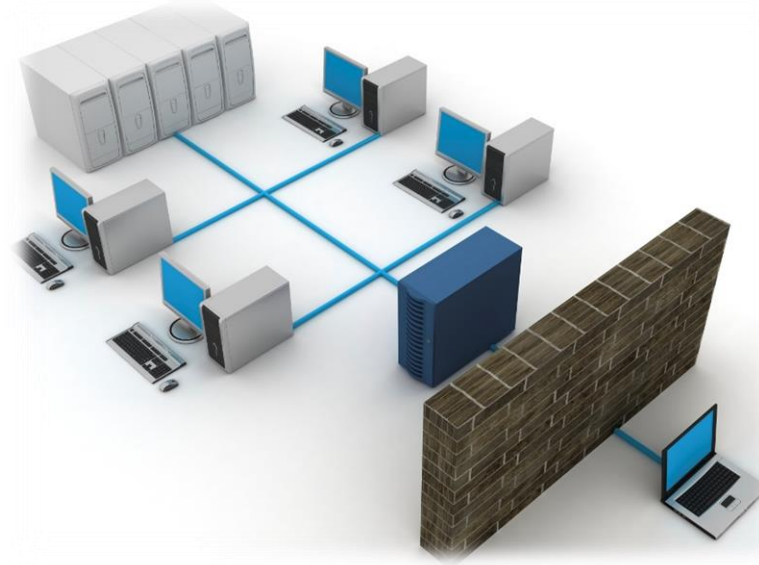
**THANK YOU!**

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# **Backup Slides**

# IT INFRASTRUCTURE ARCHITECTURE

AMT provides its clients' access to cutting edge HW platforms, together with technical support their SLA requirements. Currently AMT is a preferred DELL and SUPERMICRO partner.



# MAIN CLIENTS



# INFRASTRUCTURE AS A SERVICE



AMT supports critical mission applications, providing IT resources as a service. Those resources can be installed in the Client's site or at AMT Data Centers. Offering various infrastructure services, AMT operates always aligned with each client's business objectives.

**HPC**, Hosting, Colocation, Cloud Computing, Backup/DR and are some of this solutions.



# NOC OPERATION

AMT NOC platform, securely and seamlessly, connects to the client's infrastructure, providing an advanced event detection and efficient workflow management. This scope can be offered including the L1/L2/L3 support.



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# CODE OPTIMIZATION

In partnership with Intel, AMT was named CMP, Code Modernization Partner. The goal is to optimize HPC applications, reducing the processing time and consequently the final cost of the project.

For this purpose, AMT involves the latest Intel technologies in terms of hardware platform, aiming to get the maximum of benefits of the IT resources.





# CONNECTIVITY MANAGEMENT



AMT enables Clients to work with a high availability network. Through our NOC, AMT manages links, SLA and contracts with the telecom services providers.

The Client will receive a turn-key solution, based on the technical and the administrative side.





# IT PROFESSIONAL SERVICES OUTSOURCING



AMT provides IT specialized professional resources, supporting its clients according to their requirements and objectives

AMT's highly specialized technical team provides comprehensive support controlling and monitoring the quality of services that provides to its clients.

