



# CONTRIBUTION OF THE IBISCO- RECAS-BARI DATA CENTER TO THE ITALIAN NATIONAL SMART SPECIALIZATION STRATEGY

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Sezione di Bari

# AGENDA

National Smart Specialisation Strategy (NSSS)



Attività a supporto di diverse comunità scientifiche



Statistiche di utilizzo



Collaborazioni scientifiche



Convenzioni ufficiali

# THE NATIONAL SMART SPECIALISATION STRATEGY (NSSS)

Thematic Areas	Development trajectories
	Innovative, highly efficient production processes for industrial sustainability
	Evolutionary and adaptive production systems for customised production
	Innovative and environmentally friendly materials
<b>Smart and sustainable industry, energy and environment</b>	Technologies for biomaterials, biobased products and biorefineries
	Systems and technologies for reclaiming contaminated sites and decommissioning nuclear plants
	Water and waste treatment systems and technologies
	Technologies for smart grids, renewable sources and distributed generation
	Active & healthy ageing: technologies for active ageing and home care
	E-health, advanced diagnostics, medical devices and minimal invasiveness
	Regenerative, predictive and personalised medicine
<b>Health, nutrition, quality of life</b>	Biotechnology, bioinformatics and pharmaceutical development
	Development of precision agriculture and agriculture of the future
	Systems and technologies for packaging, preservation and traceability and safety of food production
	Nutraceuticals, Nutrigenomics, and Functional Foods
	Smart Urban Mobility, Systems for logistics and people
<b>Digital Agenda, Smart Communities, Smart Mobility Systems</b>	Systems for urban environment safety, environmental monitoring and prevention of critical events or risks
	"Embedded" electronic systems, smart sensor networks, internet of things
	Technologies for smart building, energy efficiency, and environmental sustainability
	Technologies for dissemination of ultra-broadband connection and web economy
	Industry systems and applications for tourism, access to culture, and attractiveness of Made in Italy products
<b>Tourism, Cultural Heritage and Creative Industry</b>	Technologies and applications for conservation, management and enhancement of cultural, artistic and landscape heritage
	Technologies for advanced design and digital craftsmanship
	Technologies for audio-video productions, gaming and digital publishing
	Reducing environmental impact (green engine)
	Advanced avionics in the field of hw module networks and man-machine interface
	Advanced air traffic management system
	UAV (Unmanned Aerial Vehicles) for civil use and ULM (Ultra-Léger Motorisé)
<b>Aerospace and Defense</b>	Space robotics, for in-orbit service operations and exploration missions
	Earth observation systems in the field of missions, instruments and data processing
	Launchers and electric propulsion for more efficient space access and re-entry vehicles
	Systems and technologies for military shipbuilding

# COMUNITÀ SUPPORTATE

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Elixir-IT (JRU)

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Lifewatch (JRU)

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INFN GR:1-2-3-5

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UNIBA: moltissimi dipartimenti

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Molti istituti del CNR

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Progetti EU

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ARPA-Puglia

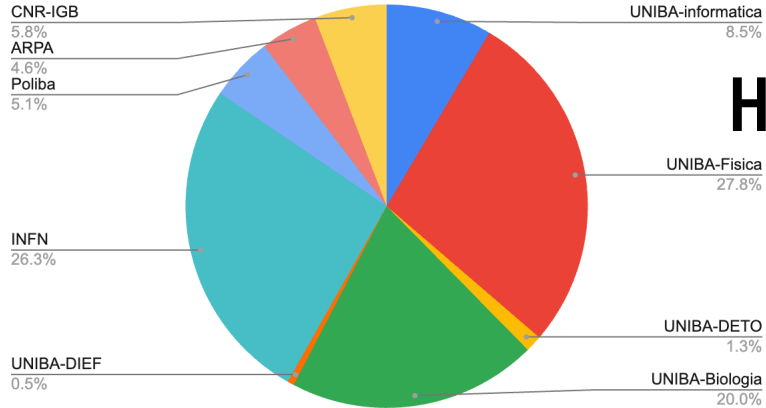
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ISPRA: attività di supporto alla raccolta dati da sistema di monitoring delle acque

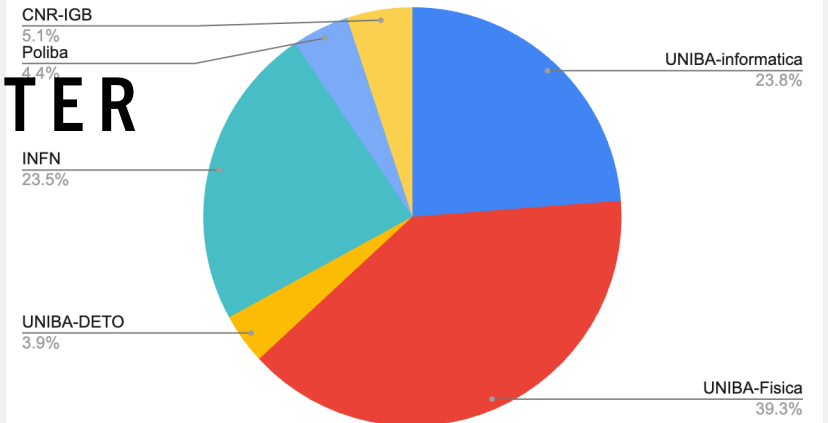
# STATISTICHE DI UTILIZZO

## HPC/GPU CLUSTER

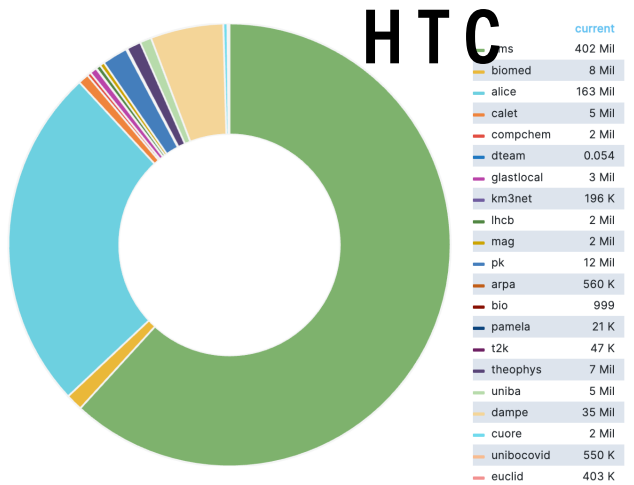
Utilizzo CPU



Utilizzo GPU

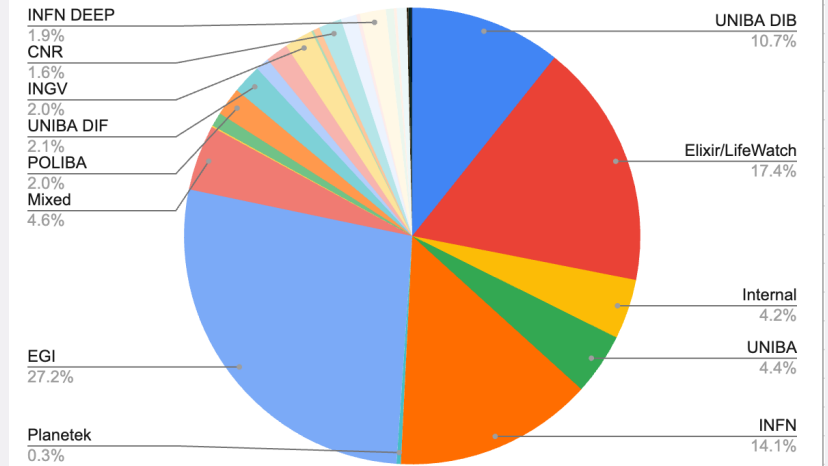


WCT - hours



## HTC

## CLOUD IAAS



# CONVENZIONI ATTIVE

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INGV

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ARPA-PUGLIA

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Planetek

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Lutech

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DTA (collaborazione nei progetti PON RPASinair, Close e Tebaka)

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EGL pay per use

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GARR per housing macchine GarrX

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CNR-IBIOM per supporto a workflow di biomedicina

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CNR-IREA sede di Napoli: supporto attività remote sensing

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ISPRA: attività di supporto alla raccolta dati da sistema di monitoring delle acque

# CONSIDERAZIONI FINALI



Trasferimento tecnologico



Co-development di servizi e use-case



Attività di ricerca collaborativa



Collaborazione che porta ad attività progettuali finanziate da fondi esterni



Attività e servizi long-term