

```
elif operation == "MIRROR_Y":
    mirror_mod.use_x = False
    mirror_mod.use_y = True
    mirror_mod.use_z = False
elif operation == "MIRROR_Z":
    mirror_mod.use_x = False
    mirror_mod.use_y = False
    mirror_mod.use_z = True

#selection at the end -add back the deselected mirror modifier object
mirror_ob.select= 1
modifier_ob.select=1
bpy.context.scene.objects.active = modifier_ob
print("Selected" + str(modifier_ob)) # modifier ob is the active ob
#mirror_ob.select = 0
#name = bpy.context.selected_objects[0]
#bpy.data.objects[name].select = 1
print("Please select modify the object, the last one is the active ob")
```

BigHPC

A Management Framework for Consolidated Big Data and HPC

- HPC distributed infrastructures and specialized hardware are increasingly desirable for running:
 - [parallel modeling](#) and [simulation](#) applications
 - [big data](#) and [machine learning](#) workloads
- The support for the latter is still emerging and can be crucial for:
 - [speeding up scientific breakthroughs](#) in different fields (e.g., health, IoT, biology, chemistry, physics)
 - [increasing the competitiveness](#) of companies



- Efficient support of both [parallel computing](#) and [Big Data workloads](#)
- Efficient management of available [computational and storage HPC resources](#)
- [Transparent application access](#) to such resources
- [Performance isolation and fairness](#) across

BigHPC will address these challenges with [a novel management framework for Big Data and parallel computing workloads](#)



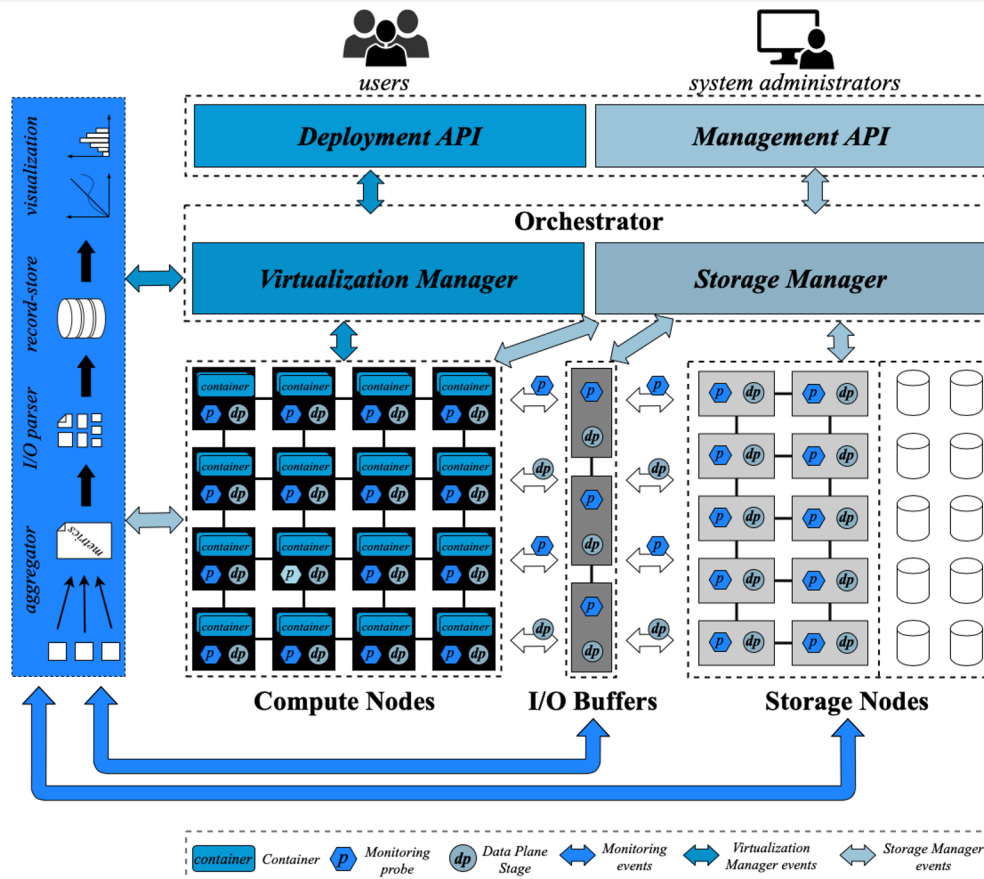
Project

- Simplify the management of HPC infrastructures supporting Big Data and parallel computing applications
- Have a direct impact on science, industry and society, by accelerating scientific breakthroughs in different fields
- Increasing the competitiveness of companies through better data analysis and improved decision-support processes
- Advance the state of the art and develop new monitoring, virtualization and storage management technologies
- Integrate these three components into a full-fledge management platform for HPC supercomputers



The BigHPC project has three main goals:

- Improve the [monitoring](#) of heterogeneous HPC infrastructures and applications
- Improve the [deployment](#) of applications and the [management](#) of HPC computational resources
- Improve [storage performance](#) and [management](#) for HPC services



Outcomes

An innovative solution to efficiently manage parallel and Big Data workloads

- provides novel [monitoring, virtualization](#) and [software-defined storage](#) components
- can cope with [HPC's infrastructural scale](#) and [heterogeneity](#)
- efficiently supports different workload requirements while [ensuring holistic performance](#) and [resource usage](#)
- can be seamlessly [integrated with existing HPC infrastructures](#) and [software stacks](#)



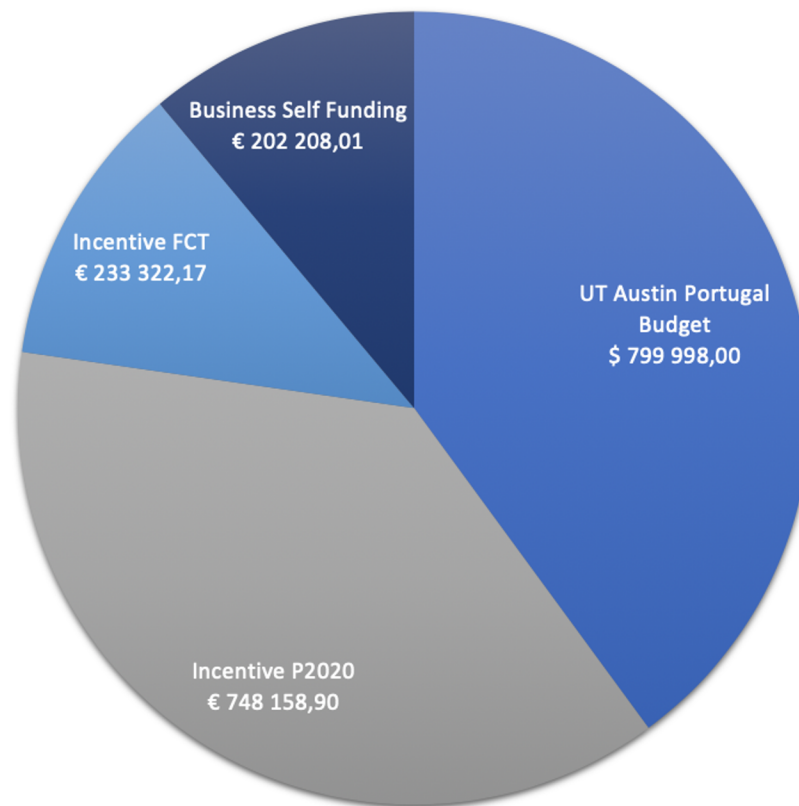
- The software components developed in BigHPC will be [integrated into a single software bundle that will be validated through real use cases](#) and a [pilot deployed on both MACC and TACC supercomputers](#)
- The project's outcomes will be [exploited commercially by Wavecom](#) that will provide the devised software framework as a service

Funding

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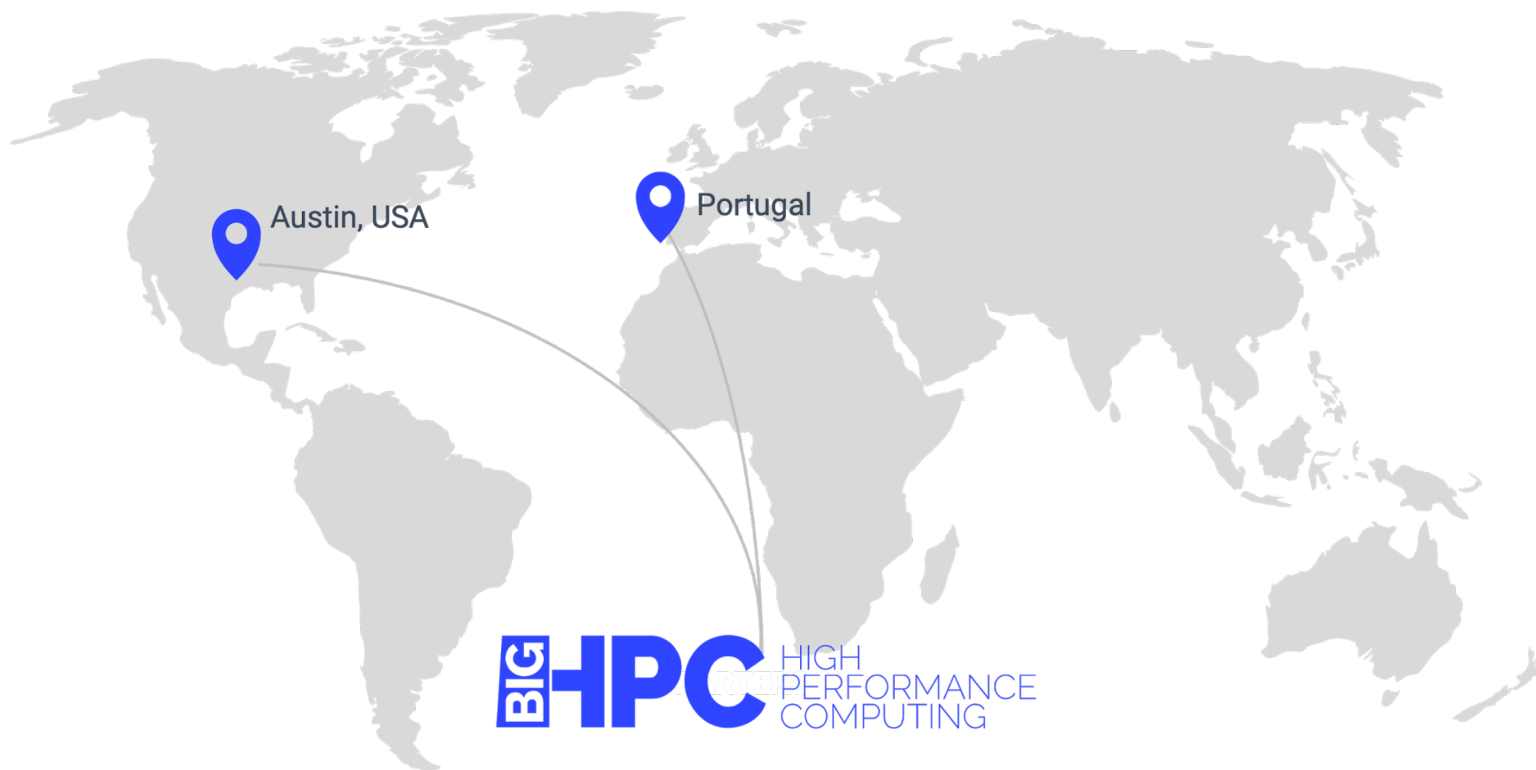
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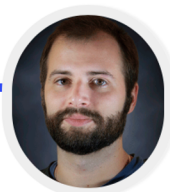
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Thank you!



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