




# DARE <sup>TO</sup> THINK <sup>THE</sup> IMPOSSIBLE.

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HPC – High Performance Computing

Save the Planet ★ Reach for the Stars ★ Improve Healthcare ★ Weather the Storm



# Imagine all the most powerful instruments of science combined into one.

## **PRACE – Partnership for Advanced Computing in Europe – Europe's Supercomputing Network.**

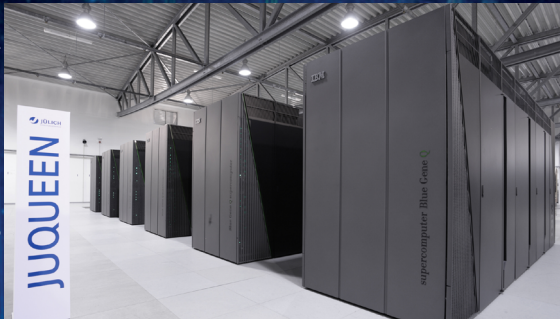
Today PRACE powers some of the most exciting research, experiments and simulations in astrophysics, engineering, energy, the environment, medicine, computer science, and more.

- ▶ A telescope that lets us see the entire universe.
- ▶ A particle accelerator that lets us explore the quantum world of the very small.
- ▶ A reactor that lets us see the inside of stars.
- ▶ A “time machine” that recreates the past to help us predict the future.

## HPC – High Performance Computing

Supercomputers are used to solve extremely complex mysteries, like predicting earthquakes, exploring the birth of stars or modelling the human brain. What can you do with it?

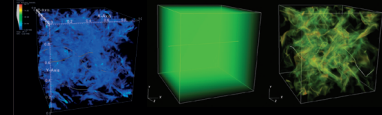
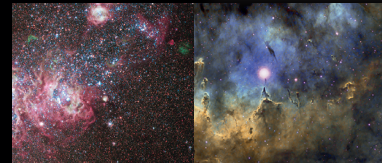
@Forschungszentrum Juelich, Germany



The possibilities are limited by only one thing.  
Your imagination!

## HPC in astrophysics

Dr. **Turlough Downes** dared to think the impossible. His research team investigates the mysteries of star formation with supercomputers.





# Where will your imagination take you?

PRACE welcomes you to dare to think the impossible. Be open to explore problems, and dream up solutions that will make our world a better place. Supercomputing may just be what helps you make those dreams come true.

**Don't be afraid to explore. Visit us at**  
[www.daretothinktheimpossible.com](http://www.daretothinktheimpossible.com)  
**to find out more.**



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