



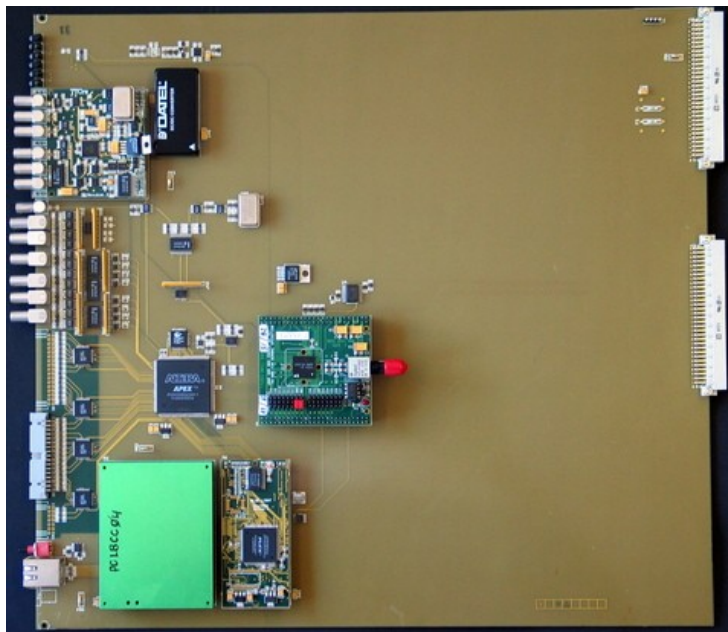
oliscience

*open logic interconnects science*

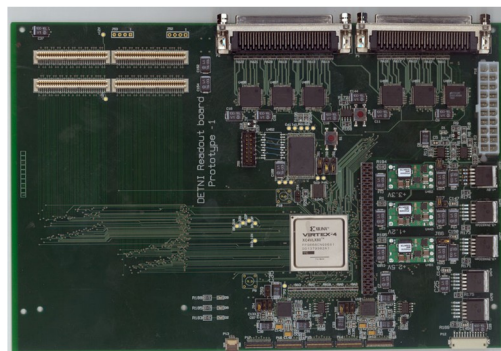
**Andrea Borga** co-founder and CEO

# About me

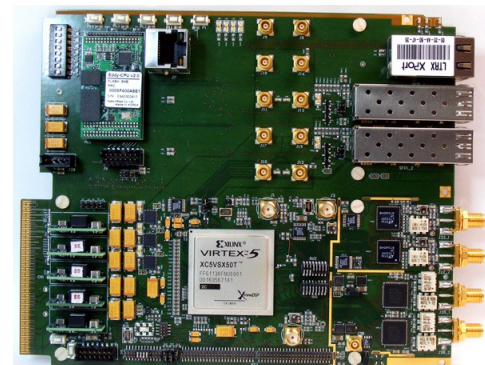
- Digital Designer specialized in Data AcQuisition (DAQ) systems
- I love science!8)



**CERN – LHCb (2004)**



**FZ-Juelich – DETNI (2007)**



**Elettra – FERMI@Elettra (2011)**



**Nikhef – ATLAS (today)**

# Recurring observations

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- Scarcity of resources
- Duplication of effort
- Improper or poor use of Open Source tools

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**the WHY triggered me to wonder  
on the HOW to fix this...**

# Another fundamental aspect .....

## What is valorisation?

**Valorisation is defined and applied in various ways.**

Policymakers like the VSNU, Rathenau, Advisory Council for Science, Technology and Innovation (AWT), and NWO define 'valorisation' as follows:

**'Valorisation is the process of creating value from knowledge, by making knowledge suitable and available for societal and/or economic application and by transforming it into products, services, processes and new business.'**

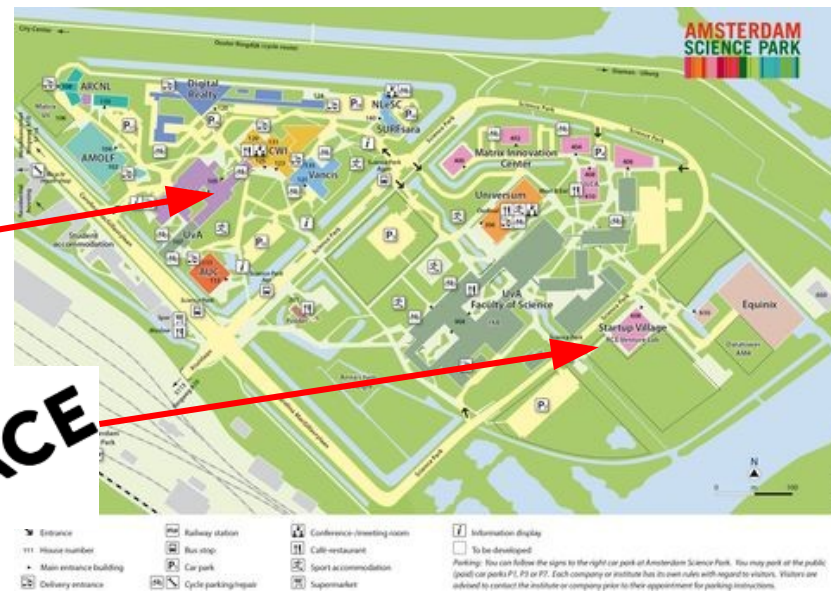
# About Oliscience BV

- Originating from the CERN-BIC at Nikhef

Nikhef

- Incubated at Amsterdam  
Centre for Entrepreneurship

- **Based at the Amsterdam Science Park**





# Oliscience management team.....

- **Alberto Alberton: (sales and marketing)**
  - experienced entrepreneur
  - angel investor in oliscience
- **Leo Davoli: (legal and operations)**
  - professional lawyer
  - angel investor in oliscience
- **Andrea Borga: (CEO and CTO)**
  - seasoned digital design engineer
  - passionate technologist
  - open source enthusiast
  - the geek!



# Oliscience in a nutshell

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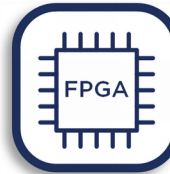
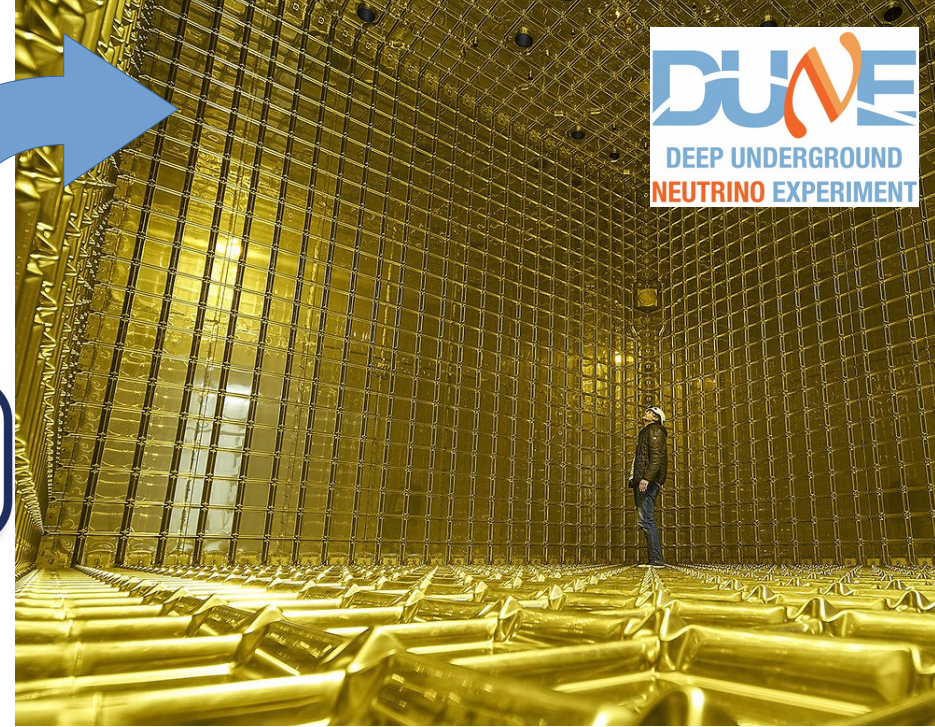
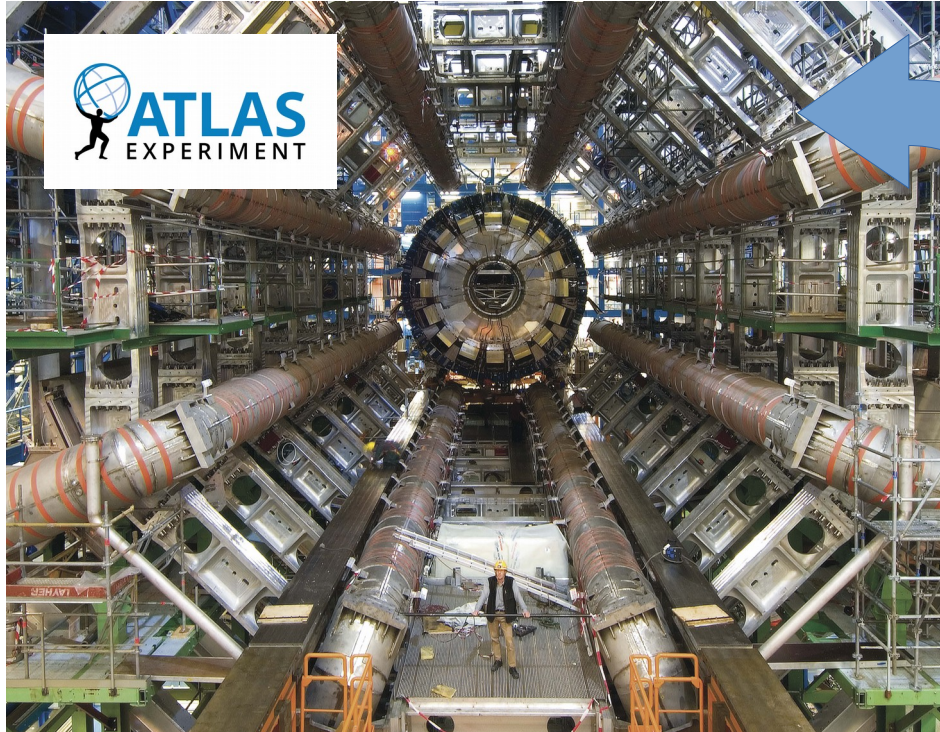
- Core business: FPGA technology
- Innovating in the field of FPGA
- Providing consultancy services
- Steward the OpenCores.org community



# Oliscience consultancy services

- In our **mission**:  
*“Specialize in the design, streamline, documentation and long term support of gateway Intellectual Property (IP) Cores for FPGA.”*
- **We design stuff with a careful eye on scientific applications and needs**

# Consultancy customer



- Open Source facilitates technology transfer

# The “good old” OpenCores.org




Home :: OpenCores - Chromium

Home :: OpenCores x

Secure | <https://opencores.org>

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www.opencores.org

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**What is OpenCores?**

The reference community for Free and Open Source gateway IP cores

Since 1999, OpenCores is the most prominent online community for the development of gateway IP (Intellectual Properties) Cores. It is the place where such cores are shared and promoted in the spirit of Free and Open Source collaboration.

The OpenCores portal hosts the source code for different digital gateway projects and supports the users' community providing a platform for listing, presenting, and managing such projects; together with version control systems for sources management.

OpenCores is also the place where digital designers meet to showcase, promote, and talk about their passion and work. They do this through forums, news collectors, and much more!

Please join us!

**Registered OpenCores users**


 **300000**  
[OpenCores statistics](#)


**Last updated projects**


- [Attiny Atmega Xmega core](#)
- [lon - MIPS\(tm\) compatible CPU](#)
- [SHA3 \(KECCAK\)](#)
- [APB to I2C](#)
- [Floating Point Adder and Multiplier](#)
- [NextZ80](#)
- [cpu65c02\\_ic - R65C02 Processor Soft Core with accurate timing](#)
- [T80 cpu](#)

**Most popular projects**


- [802.3an LDPC Decoder](#)
- [I2C controller core](#)
- [OpenRISC 2000](#)
- [SPI Master/Slave Interface](#)
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**Professional support**

  
oliscience  
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We are the developers and maintainers of this website and community, but not only!

If you plan to use IP Cores from OpenCores in your next design and need support, or if you require professional advise on your next challenging IP Core development, don't hesitate to contact us.

We are experts in gateway design and engineering based on the OpenCores technology, and have extensive experience in all parts of FPGA development.

Please visit [Oliscience](#) for further information and enquiries.



# Foster Open Source culture

## Share... why?

- Get the job done
- Avoid duplication effort
- Seeding of ideas
- Free peer review
- ***Sharing in the genes of scientific collaboration***
- A lot of testing done by third parties (**verification**)
- Promote common/good practices (**standardization**)
- **Labs use Open Source but... correctly?**



# OpenCores.org purpose

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- OpenCores brings together Digital Design Engineers (across fields and applications)
- **make FPGA and gateware more accessible**
- **push!** ensure that the best IP Cores are used and let them be improved further by community
- **pull!** encourage more people to add IP Cores

# Oliscience goals

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- **Stimulate** the community
- **Motivate** designers to contribute
- **Steward** a forum for minds-alike to meet
- **Promote** best-in-class design practices
- **Support** our premium partners actively

# A call to action to partners

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**we develop, drive and promote  
the large OpenCores community**

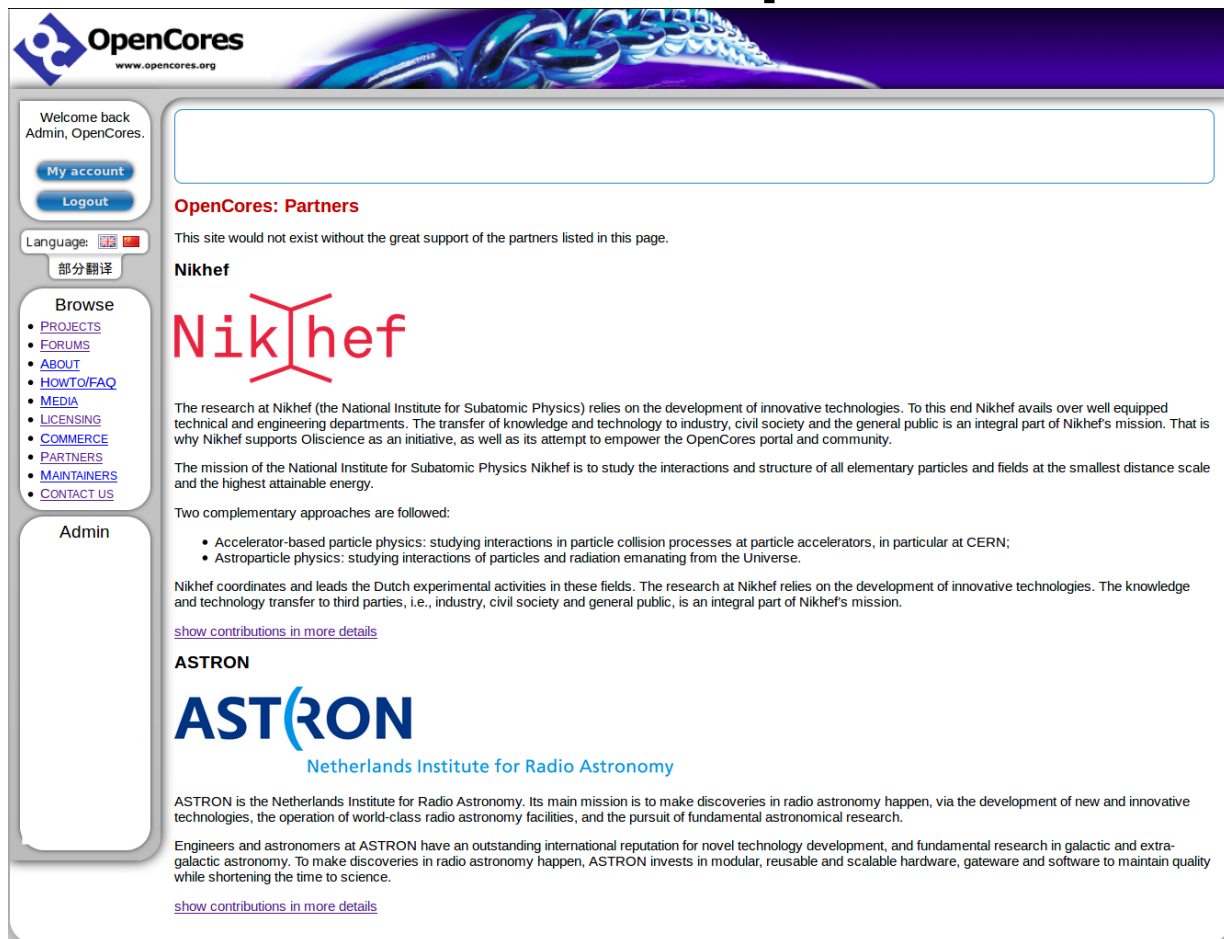
consisting of:

- Research institutions
- Universities
- High-tech corporates

**you access resources on our portal  
and contribute fostering common practices**




# Premium partnership program.....



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Admin

## OpenCores: Partners

This site would not exist without the great support of the partners listed in this page.

### Nikhef

The research at Nikhef (the National Institute for Subatomic Physics) relies on the development of innovative technologies. To this end Nikhef avails over well equipped technical and engineering departments. The transfer of knowledge and technology to industry, civil society and the general public is an integral part of Nikhef's mission. That is why Nikhef supports Oliscience as an initiative, as well as its attempt to empower the OpenCores portal and community.

The mission of the National Institute for Subatomic Physics Nikhef is to study the interactions and structure of all elementary particles and fields at the smallest distance scale and the highest attainable energy.

Two complementary approaches are followed:

- Accelerator-based particle physics: studying interactions in particle collision processes at particle accelerators, in particular at CERN;
- Astroparticle physics: studying interactions of particles and radiation emanating from the Universe.

Nikhef coordinates and leads the Dutch experimental activities in these fields. The research at Nikhef relies on the development of innovative technologies. The knowledge and technology transfer to third parties, i.e., industry, civil society and general public, is an integral part of Nikhef's mission.

[show contributions in more details](#)

### ASTRON

**ASTRON**  
Netherlands Institute for Radio Astronomy

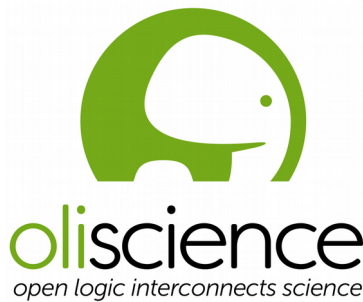
ASTRON is the Netherlands Institute for Radio Astronomy. Its main mission is to make discoveries in radio astronomy happen, via the development of new and innovative technologies, the operation of world-class radio astronomy facilities, and the pursuit of fundamental astronomical research.

Engineers and astronomers at ASTRON have an outstanding international reputation for novel technology development, and fundamental research in galactic and extra-galactic astronomy. To make discoveries in radio astronomy happen, ASTRON invests in modular, reusable and scalable hardware, gateway and software to maintain quality while shortening the time to science.

[show contributions in more details](#)

- Higher **visibility** on the platform
- **Promotion** in the community
- **Guidance** in publication process
- Deeper **insight** on IP Cores

# Thank you



+



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[www.oliscience.nl](http://www.oliscience.nl)

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