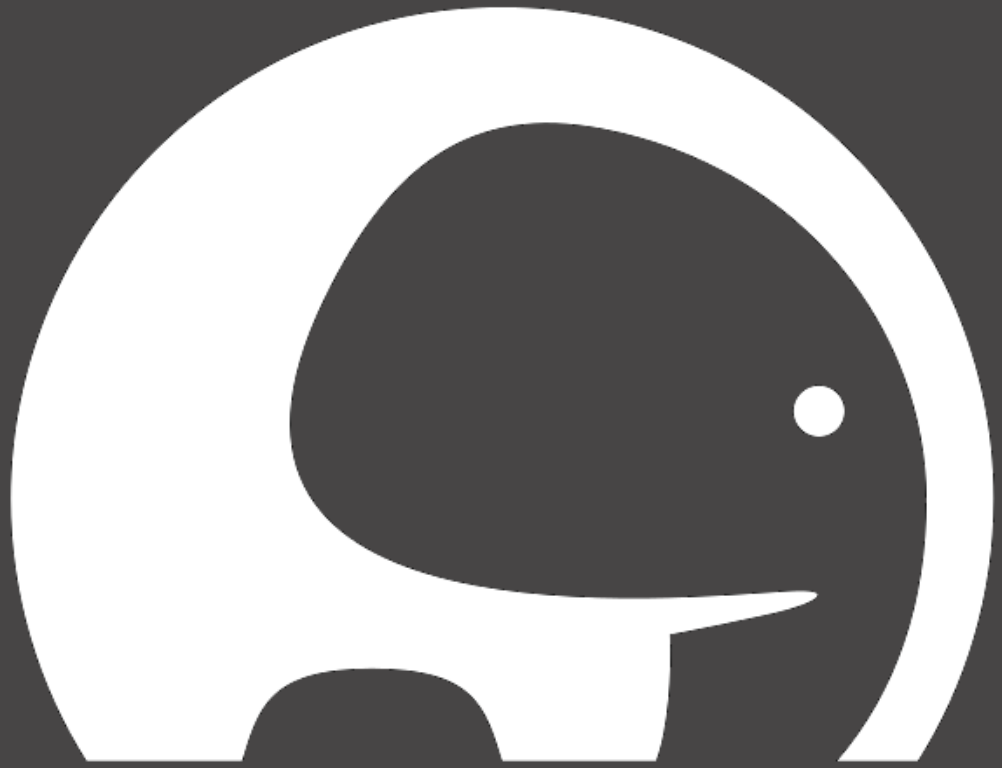


oliscience

open logic interconnects science

Andrea Borga (Digital Design Engineer / co-founder)

Oliscience

- Young and passionate startup of committed professionals
- Originating from the CERN@Nikhef BIC (Business Incubator Centre)

Nikhef

- Coached by the Amsterdam Centre for Entrepreneurship

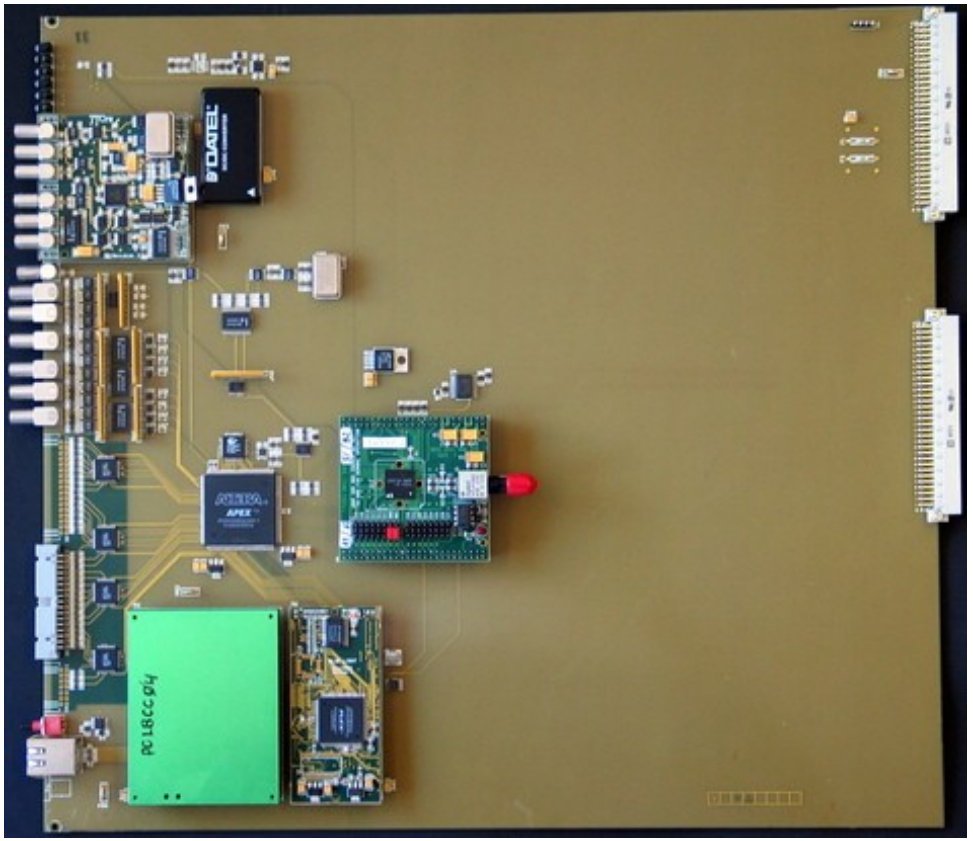
ACE

- Based at the ‘Adam Startup Village (Science Park)

Oliscience team

I’ve worked on a few designs

- In the engineering world most commonly known as a “Digital Designer” or… “the FPGA guy”



CERN – LHCb (2004)

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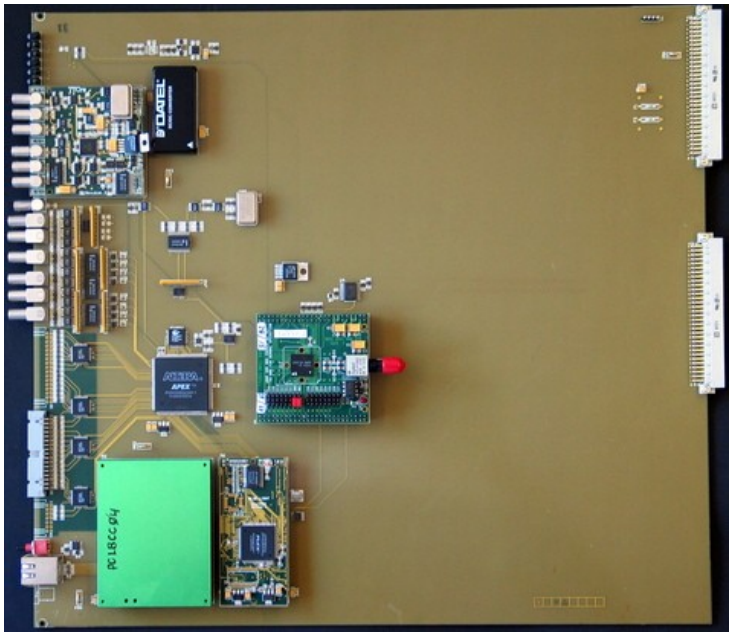

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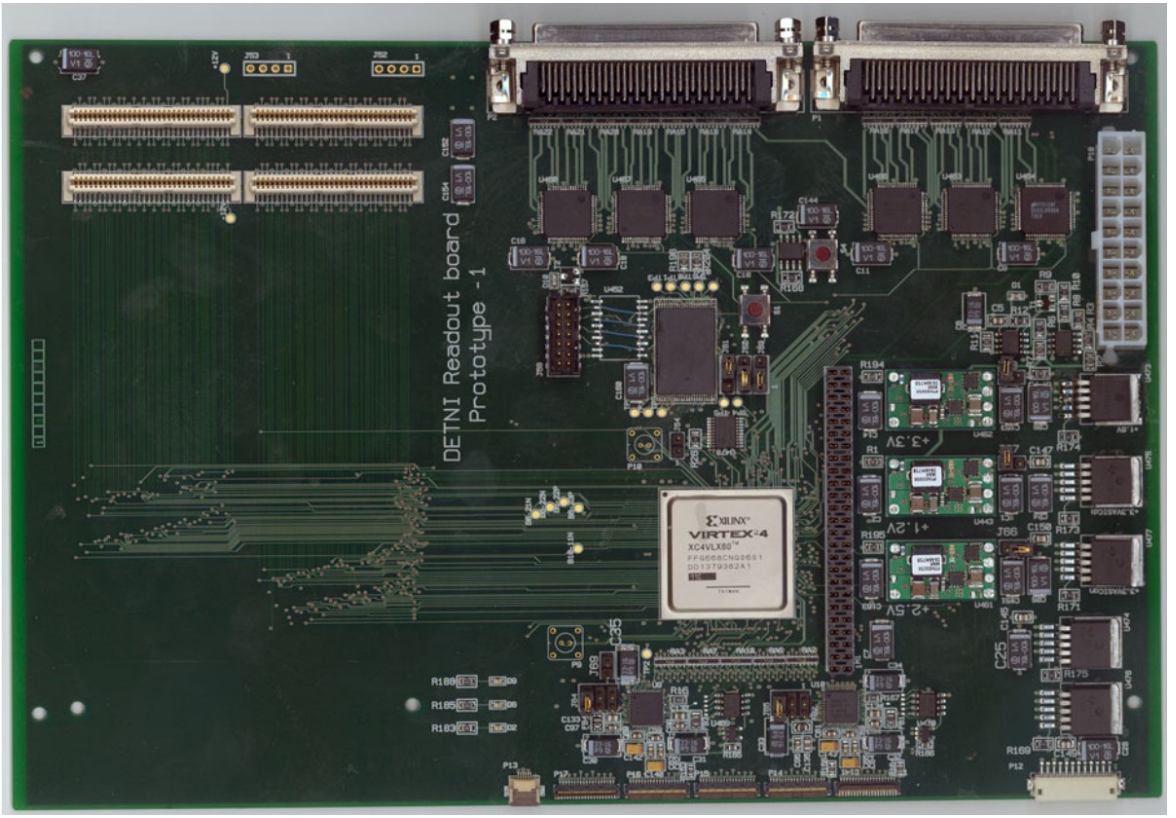

FZ-Juelich – DETNI (2007)

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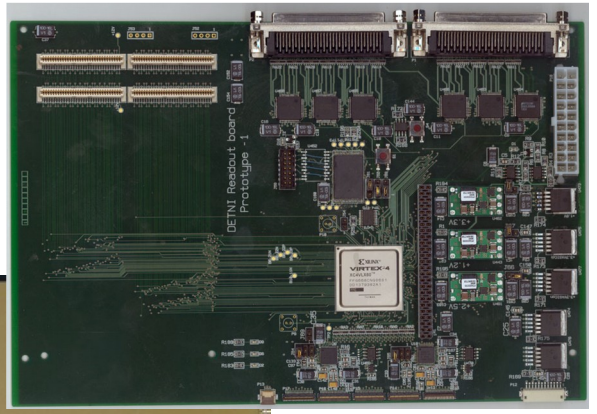

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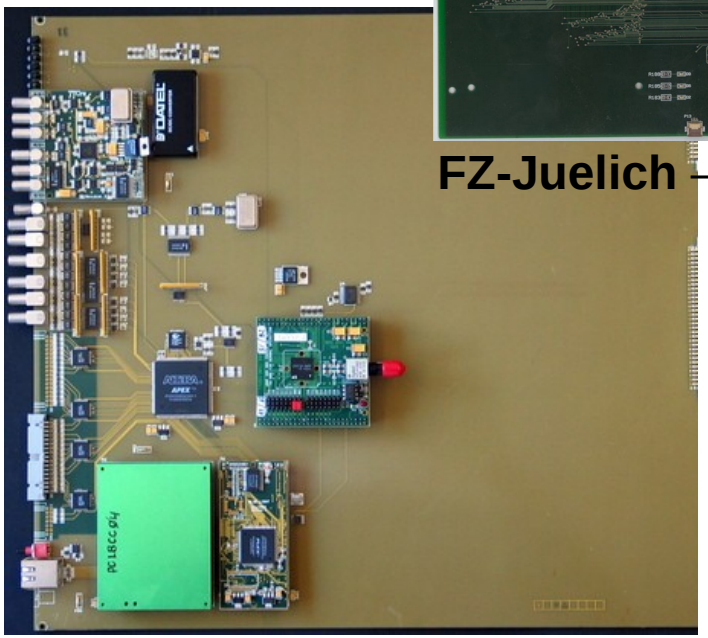

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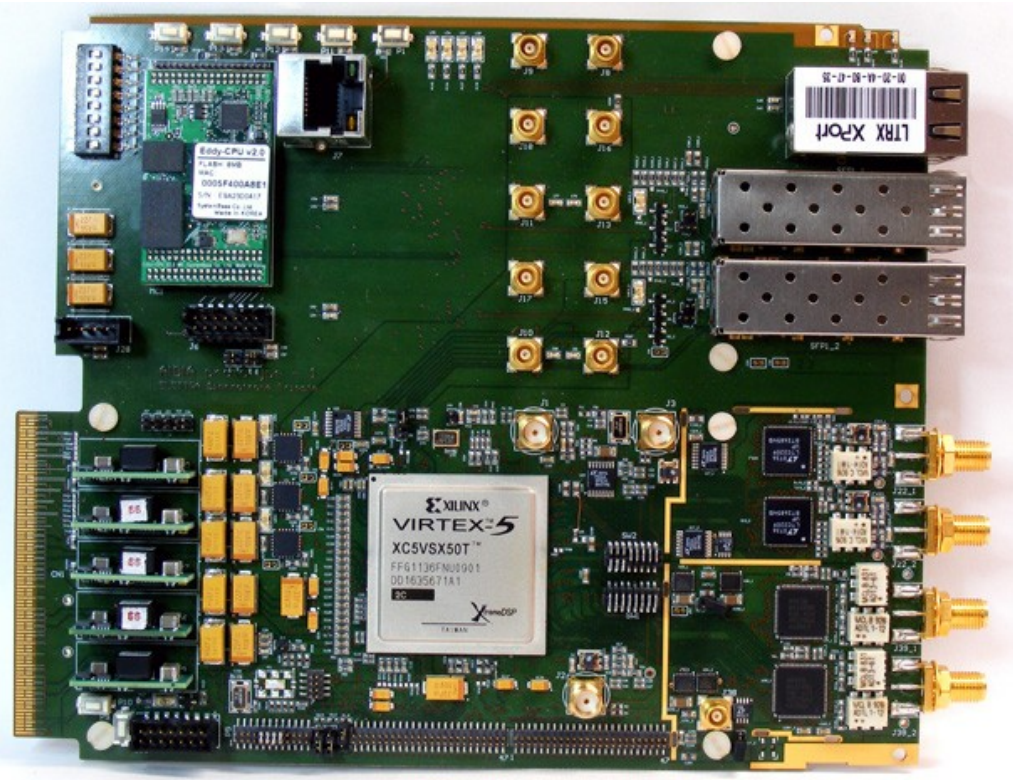

Elettra – FERMI@Elettra (2011)

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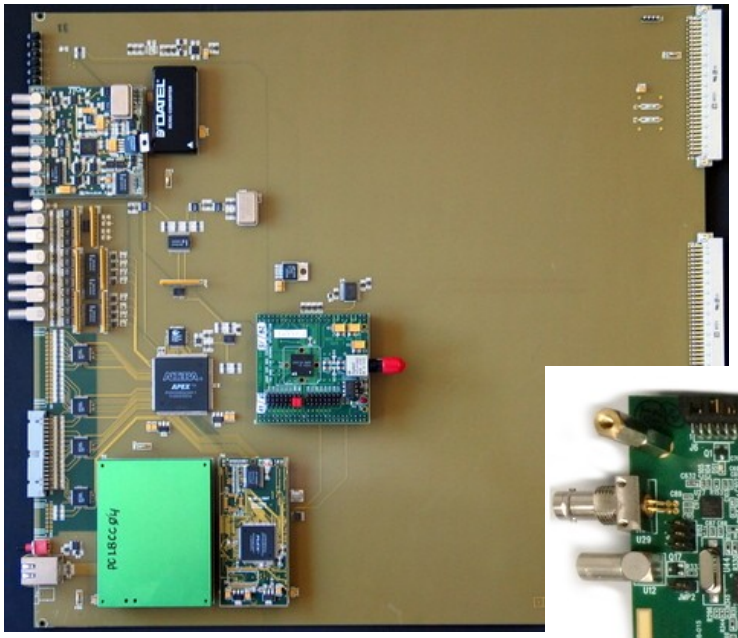

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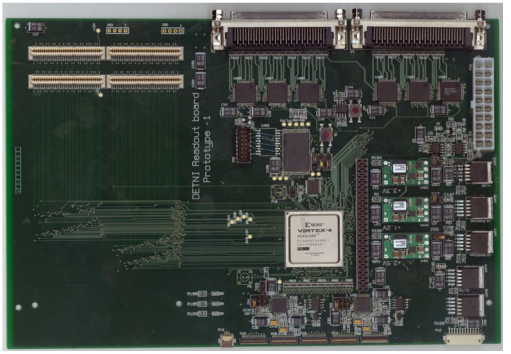

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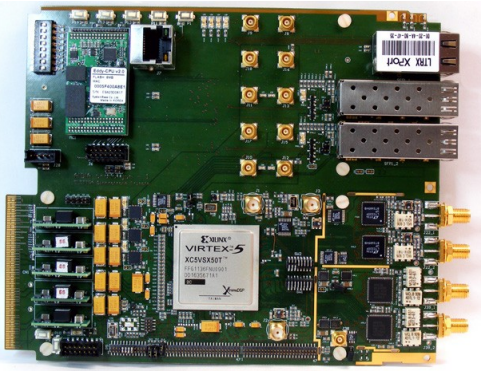

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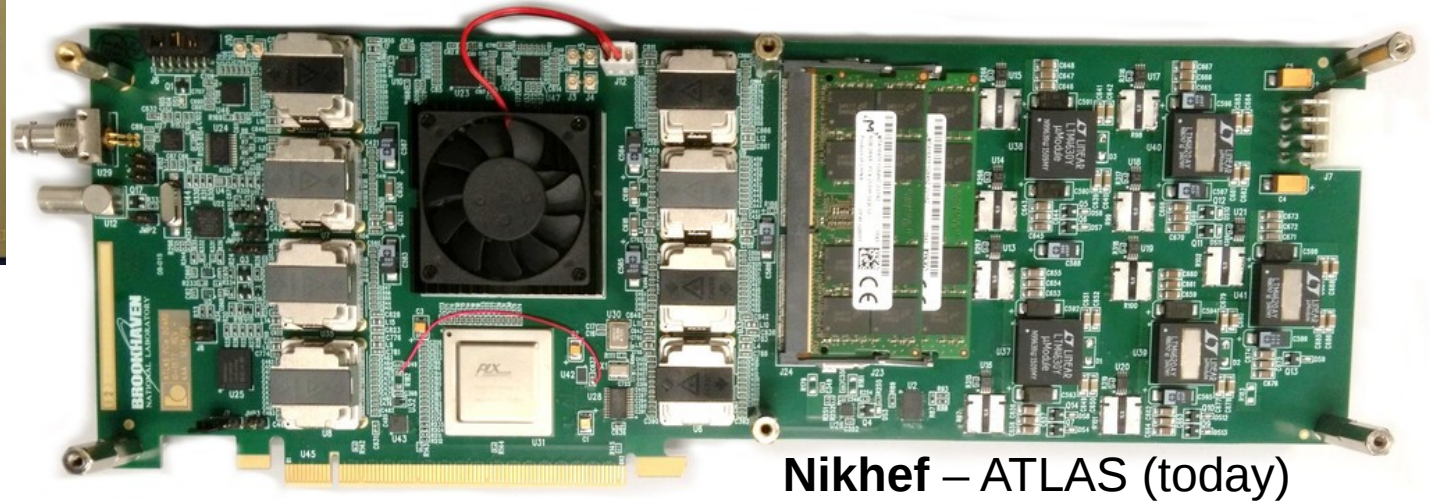
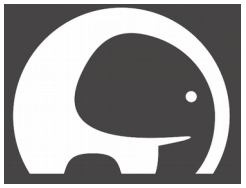


Nikhef – ATLAS (today)



The problems

- There is no solid definition of **gateware** and its boundary for FPGAs
- There is a lot of effort duplication especially in our scientific community
- There is no solid metrics to measure the strength of digital designers
- There are opportunities for companies operating in an open source field applied to gateware for FPGAs

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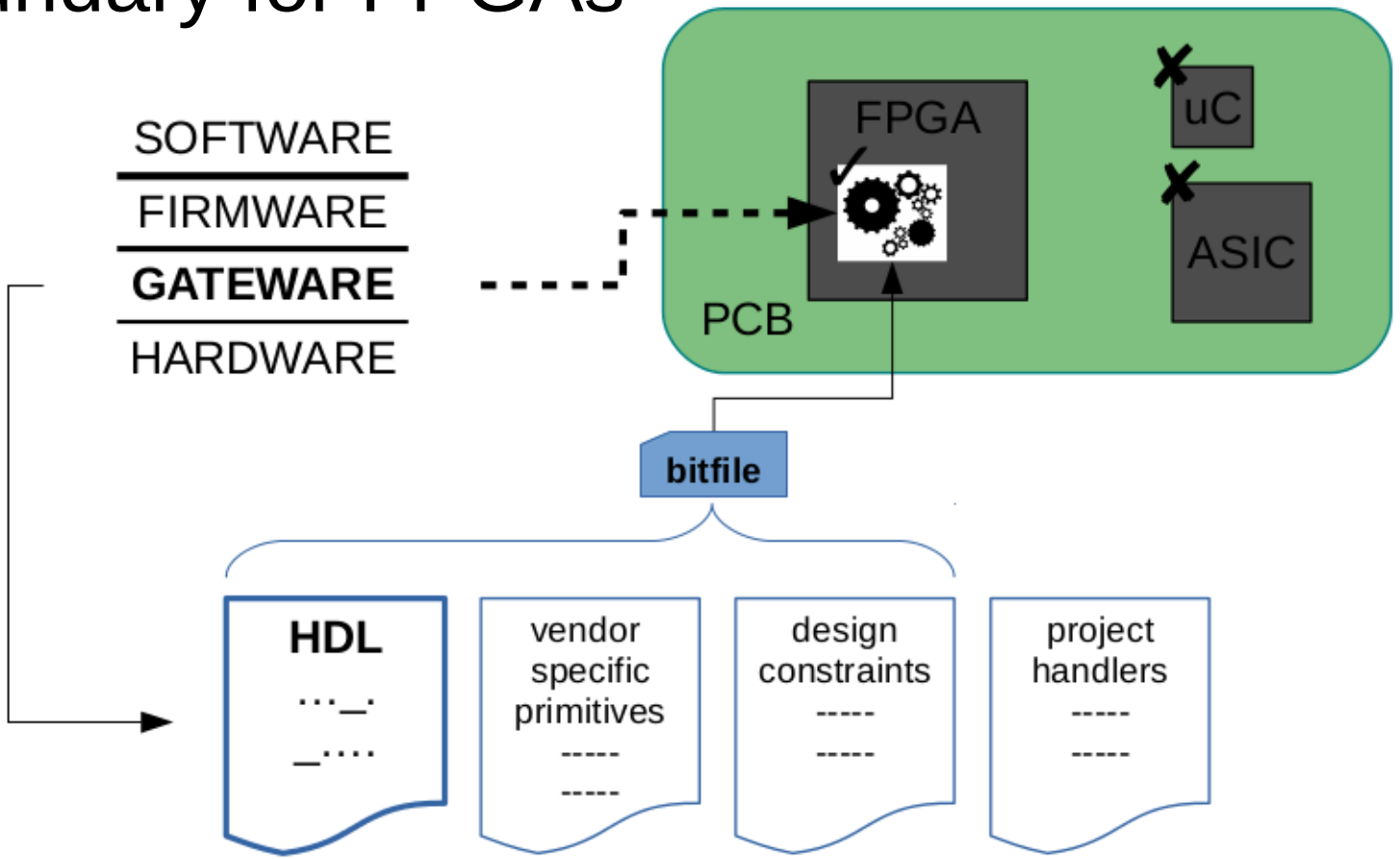
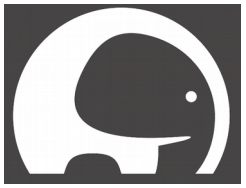
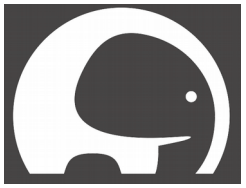




The problems

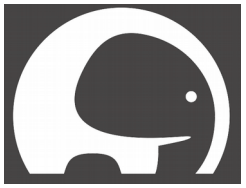
- There is a lot of effort duplication especially in our scientific community
- There is no solid metrics to measure the strength of digital designers
- There are opportunities for companies operating in an open source field applied to gateware for FPGAs
- **… where to start fixing those?**

Empower experts



OpenCores.org

- Funded in 1999 by a Slovenian student
- A portal that since then collected >250.000 professionals in the field of gateware IPs
- Generates ~500.000 views per month
- Strong identity, established trademark, consistent community, very specialized, potentially business oriented
- Used to be maintained by a Swedish company
- Unkempt since 2012, **was acquired by Oliscience in 2017**



A call to action

we develop, drive and promote the large OpenCores community

- Research institutions
- Universities
- High-tech corporates

engage designers on our portal and foster common practices

Oliscience goals

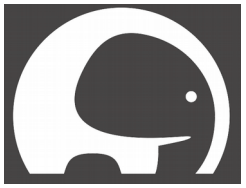
- **Activate** the community
- **Offer** an “impact metrics” to asses performance and motivate designers to contribute (for **labs**)
- **Offer** a forum where professionals can meet mindests alike (appealing to **industry**)
- **Provide** consultancy services via the portal in the field of gateware design and support

Why bother?

- For **designers:** engaging experience encourages to contribute and participate
- For **labs**: showcase their capabilities, find new partnerships, approach funding agencies
- For **companies:** potential market place popular among users in the filed
- For all: it’s a neutral and healthy place to meet and work in synergy
- For all: let professionals take care of the infrastructure

Planning for this year

- Add new features to the site
  - Harness site back-end
  - Offer premium features
  - Explore GIT support
- Looking for partners to support and join forces!
  - Talking to labs and universities
  - Exploring industry (specific sectors)
- Looking for challenges to test our capability to lead innovation
  - Exploring several call for proposals



The big ambition

- 2018 will be an exciting year for FPGA fanatics
- FPGAs are getting everywhere (more than ever)
  → Intel bought Altera [end 2015]
  → Xilinx is in the cloud (AWS) with IBM [2017]
- Market is clearly rocketing
- There is a evident wave approaching us
  → that will also impact high-end scientific research and the way we engineer related systems

Oliscience is prepared to drive the change

Yes, Oliscience “valorizes”! 8)

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.’

http://www.ixa.nl/fileadmin/user_upload/Documenten/ValorisatiegidsVU-UvA_Web_ENG.pdf