RMLL – Media production
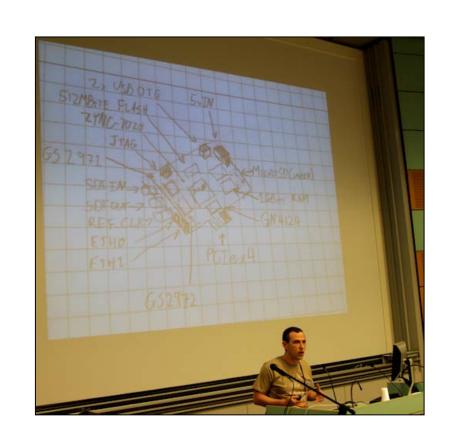
- **Products are too expensive**
  - "No board is worth $ 10.000"
  - But "some dongles cost $ 29.000"

- **Free hard-/software**
  - Promises lower prices
  - Broadcasters should demand it
  - Support is a key issue
  - But can provide business too

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- ## Openstack

  - In use now for commercial services

  - Functionality is increasing

  - Can be difficult to install (3 weeks!)

  - The manual could be better too

- ## CasparCG

  - Proven in many live broadcasts

  - May even become a (web)transcoder

  - Less well-known than deserved

Complexity: Starting multiple services

```
sudo start nova-network
source ~/creds/openrc
sudo service mysql restart
sudo service keystone restart
sudo service glance-registry restart
sudo service glance-api restart
sudo restart libvirt-bin
sudo service rabbitmq-server restart
sudo service iscsitarget start
sudo service open-iscsi start
sudo restart nova-api
sudo restart nova-compute
sudo restart nova-network
sudo restart nova-scheduler
sudo restart nova-consoleauth
sudo restart nova-volume
sudo restart nova-cert
sudo restart libvirt-bin
sudo /etc/init.d/rabbitmq-server restart
sudo nova-manage service list
```

Binary	Host	Zone	Status	State	Updated_At
nova-consoleauth	PoC5	nova	enabled	:-)	2012-05-29 15:40:54
nova-compute	PoC5	nova	enabled	:-)	2012-05-29 15:40:59
nova-network	PoC5	nova	enabled	:-)	2012-05-29 15:40:56
nova-scheduler	PoC5	nova	enabled	:-)	2012-05-29 15:40:54
nova-volume	PoC5	nova	enabled	:-)	2012-05-29 15:40:56
nova-cert	PoC5	nova	enabled	:-)	2012-05-29 15:40:59

```
sudo service rsync restart
sudo swift-init main restart
sudo swift-init rest restart
sudo /etc/init.d/apache2 restart
sudo restart nova-api
```

BBC R&D

- **AXIOM 4k camera is coming**
  - Crowdfunding this year
  - Promises to be << $ 10.000
  - The sensor will not be open

- **YLE's FreeLCS is (just) out**
  - EBU R 128 loudness correction
  - Performs well on modest systems
  - Lots of interest from the community

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- ## Blender is greater than ever
  - Almost 10 years FLOSS now
  - 100's of add-ons are avaiable
  - SwissBUG community is starting

Swiss watch, made in Blender by Olivier Amrein

- ## FLOSS NLEs
  - Supporting wide range of codecs (FFmpeg)
  - Still seem far from current closed source systems
  - Several (OpenShot, PiTiVi, Kdenlive) continue to be in active development
  - Most advanced currently may be Cinelerra

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- **OpenNLP works well**
  - Used in RAI's multi-modal news system
  - Training function allows use for new languages too
  - Example of how FLOSS can help address new markets & trends

- **Radio play-out going video?**
  - Airtime may add video play-out scheduling
  - The Airtime business model (hosted clone pays the development) works well
  - Technology helps against monopolies and achieve accountability

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- **All media production with FLOSS?**

    - "That would be nice, but may not be realistic"

- **What can broadcasters do?**

    - Be more demanding towards their suppliers: support, quality, openess

    - Share technical facilities with interested FLOSS developers (hackspace?)

    - Team up under EBU umbrella to invest in/develop FLOSS together

- **What can the EBU do?**

    - Continue to create freely available specifications

    - Provide incentives - e.g. a bounty for solving a specific problem

    - Set up a medialab to create example/reference code

- Geeksong by Eoghan O'Sullivan

http://www.youtube.com/watch?v=oG7EQAho95M