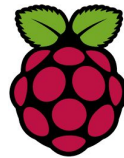


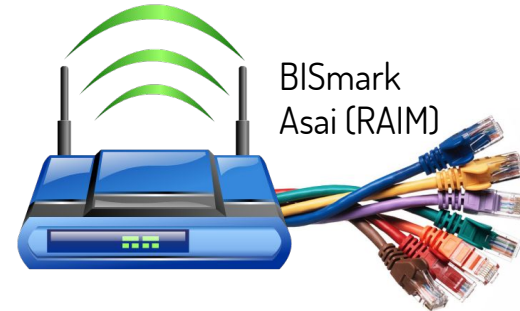
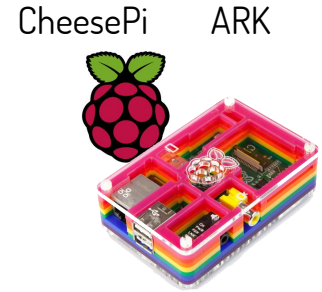
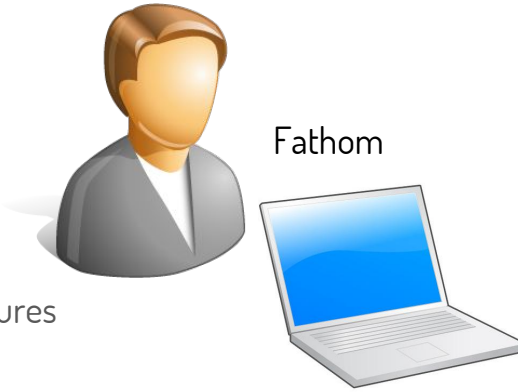
# CheesePi: Swedish home network monitoring

Liam McNamara & Ian Marsh (SICS)  
Sverker Forslin (PTS)



# CheesePi

- Scandinavia is highly connected
  - But relatively unmonitored\*
- CheesePi = SICS + Swedish regulator
- CheesePi nodes are:
  - Always on, always monitors & opportunistically measures & is quiet & cheap & plentiful ...
- Our prototype comprises:
  - Commodity hardware
  - Community software
- Hardware-based network monitoring:
  - A **R**ea**A**ppl**I**cation of **I**nternet **M**easurement
  - Network (congestion) may introduce poor QoE
  - Poor QoE may indicate network congestion



# CheesePi direction

- Two main goals:
  - a. **Quantifying** application layer problems in homes
  - b. **Characterising** Swedish Internet, via:
    - Selective viewpoints
    - By ISP, geography or event
    - In an *unbiased* manner
- Some specific research questions:
  - a. Shared infrastructure detection
  - b. Collaborative coordination of Pis for larger network inference
- Community building:
  - a. CheesePi = SICS + Swedish regulator + RAIMers + ...
- Additional information: [http:](http://cheesepi.sics.se)

[//cheesepi.sics.se](http://cheesepi.sics.se)