

### Who am I?

#### Background

- Master's Degnee in Physics
- Worked in IT
- Programmer a
- Worked for Er
- · Switched to S

### Symbian

- Symbian became Open Source
- Recruited by Symbian Foundation in 2009
- Work with delivery management
- And whatever else needs to be done

#### Open source

- Enthusiast Linux user since 1994
- Started "Bergamot Project" in 2007, to bring OSS to Symbian



# What is Symbian?

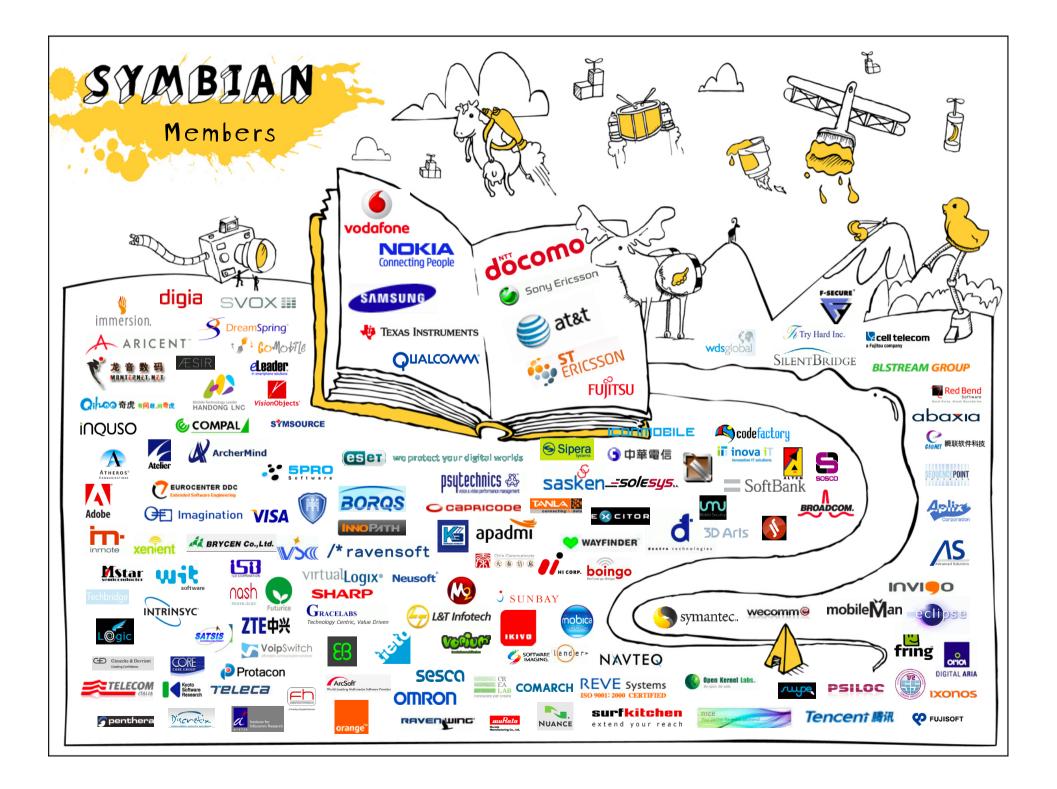
Released every 6 months

A complete mobile device platform
 Consists of Symbian OS 9.5 merged with Nokia S60
 5.0 user experience and other parts
 In the process of going open source (EPL license)
 Approximately 40 million lines of code!
 Made up of 134 software packages (kernel, Bluetooth, cellular communications, calendar...)

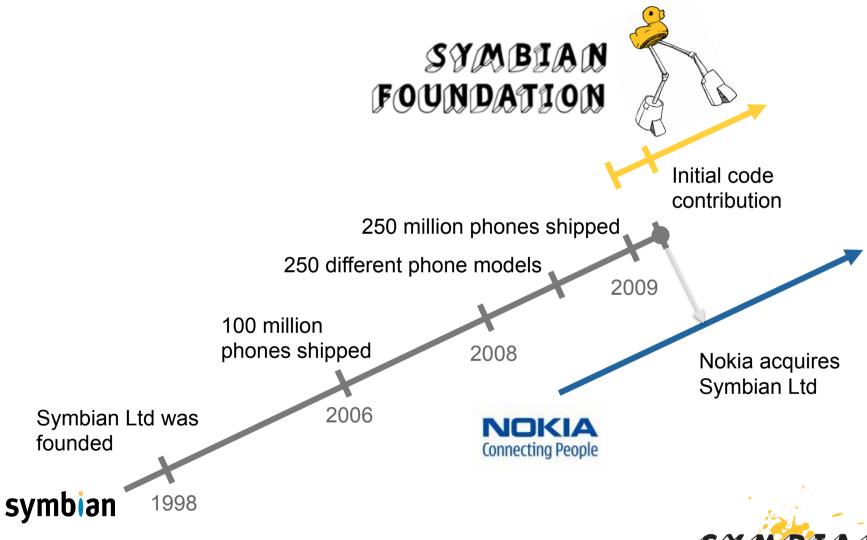


# What is Symbian Foundation?

My employer An independent nonprofit organization to facilitate the development of the Symbian Platform Launched April 1st 2009 Similar to Eclipse, Mozilla and Apache Foundations ~90 employees (largely new recruits), 6 offices ~180 members, 12 founding Still finding our role in the eco-system



# A short history





### Planning the Foundation



#### Expert teams

Staffed by Nokia and Symbian Ltd to look at specific problems

How is the platform governed?

Feature & Roadmap, Architecture, UI and

Re

How will the code base structured?

System model and technology domains

What Infrastructure is needed?
Bug tracker, Mailing Lists, SCM system, etc.

What are the different open source roles?
Package Owners.

How do different parts ~ of the community work together?

### Initial structure of Symbian

- Planning led to a large number of documents,
   suggesting an initial structure of the Foundation
- Platform divided into 134 packages in 13 domains
  - Each package the size of many OSS projects!
  - A small community around each package
  - So package owners are community leaders!
  - And Symbian is a community of communities
- Open Governance
  - · Platform direction is governed by 4 councils
  - Seats filled by community representatives
  - Chaired by non-voting Symbian staff

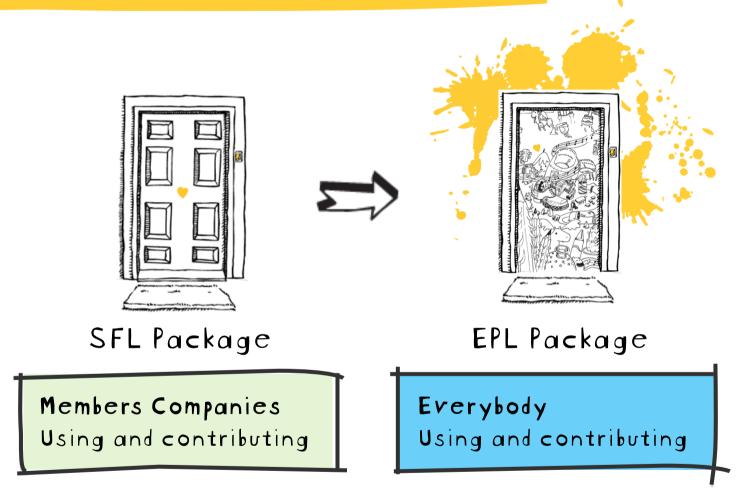


# Going Open Source... slowly

- 10 years worth of source code developed by many parties
- 40 million lines of code to check for IP violations
  - Many false positives
  - Many benign cases (e.g. code copied from a book)
- It took 6 months to identify all serious IP issues
  - 16% of components had an instance of an IP issue
  - 96 cases altogether, 74 closed as of December 1st
- Affected code was removed initially
  - Ultimately replaced by open source friendly code
  - Or feature scrapped
- · Code made available under interim SFL licence



### SFL an interim license



A beta period towards going open source: learn, fix & de-risk

# Restarting the community



Symbian already had an eco-system around it Going open source is a shock for existing members Moving from secret business agreements to community

#### Raising questions such as ...

- What is the opportunity?
- What is the risk?
- How does the game change?
- How do I adapt?
- Do I need to change my business model?

#### This takes time

Many eco-system companies are concluding this process

- Some find it hard
- Early birds are thriving
- Foundation must help out



### Lessons learned

- Growing community leaders
- · Starting the contributor community
- Provide the common goods
- Open source versus open community
- Leave challenges to the community
- Let everybody influence
- Encourage, don't force openness

Lots to learn still...



### Growing community leaders

How do I find 134 open source leaders who know their technology?

I Can't! Experts need to grow into community leaders over time!



- Why would anybody want to contribute?
- What do I need to do to be successful?
- What support can I count on?

allo

Solutions: education, supporting, mentor and rewarding desired behavior!

Also: Foundation staff leading and acting as role models



### Starting the contributor community

All contributions satisfy a SELFISH NEED!

We had to learn what motivates contributions



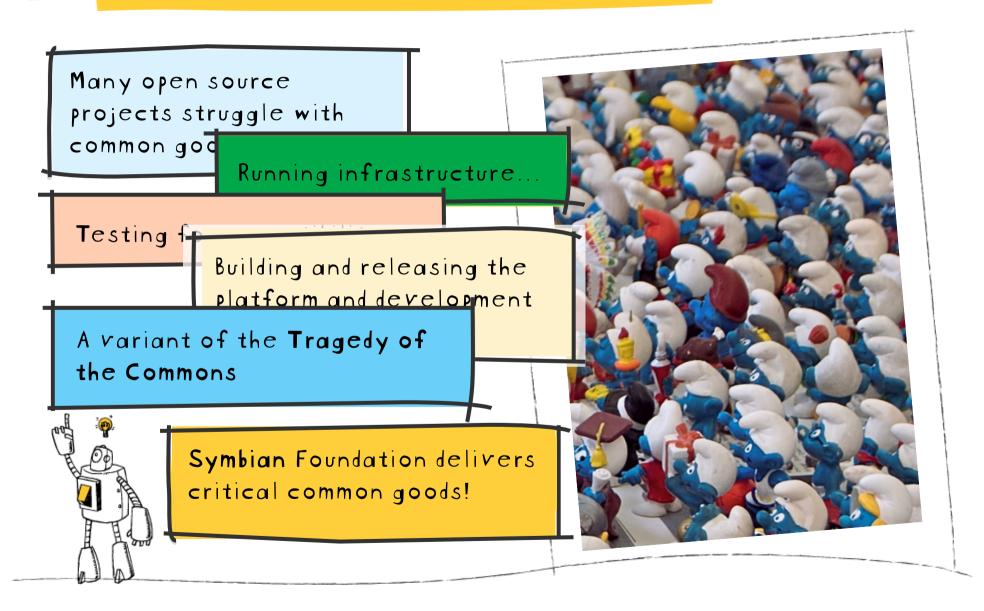
Transfer that knowledge to the community

And transfer the knowledge to our open source leaders, so that they can build a community around their package





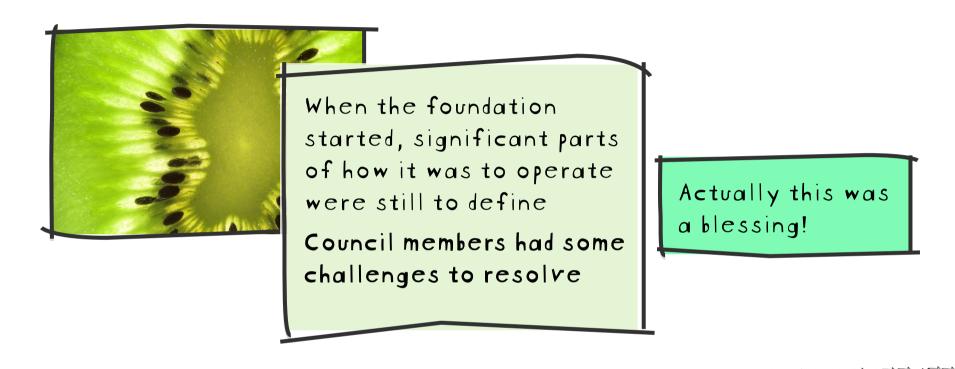
### Provide the Common Goods



### Open Source Versus Open Community

### Slowly going open source has benefits: Time to staff the foundation • Time for • Time to Not as bad as it sounds! • Time to Open source is at least as much a way of collaborating as a choice of license! Hegative sentiment rion parts of the OSS community No way for most people to contribute code!

### Leave Challenges to the Community



Problems (which people care about)

Big stake in solving these

builds sense of OWNERSHIP

# Let Everybody Influence

Working groups (e.g. UI migration wd SIGs: Special Interest Groups "I can help drive change?" BoFs and other interactive parts of our annual conference! Sense of OWNERSHIP Symbian Idea Site http://ideas.symbian.org/: Over 500 ideas! **UI** Brainstorm blog SYMBIAN

### Encourage, don't force openness

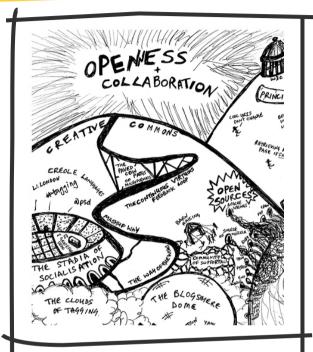
#### Open Management

Our community likes the fact that roadmaps, backlogs, minutes, etc. are publicly available!

But being open can lead to embarrassment (consider number of silently scrapped projects)

Worry to share information that can be used to deduce trade secrets

And separating value add from infrastructure is difficult!



Do not force the community to be open!



# The journey has only begun

We have a very good chance of succeeding

- Strong support from OEMs
- Member base growing
- Contributions are coming in
- Members are finding their place
- Results prove that the community works

Unchartered waters, and still lots to do and learn!

Foundation keeps trying new ideas to see what works Ultimately the community must lead

Being part of this journey is FUN, but also lots of HARD WORK!



### Some data to close...

In 2012 - 2014 there will be 372 - 525 million smart phones sold per year.

>60% of these will be based on open source operating systems

Symbian is projected to be the most used OS in 2012 & 2014

Open Source in Mobile is here to stay!

- Juniper Research
- Gartner



