FOMS is ....

a meeting place for open media software developers

dev

coding time
Professional Attendees

- Anuradha Suraparaju, BBC
- Charles McCathieNevile, Opera
- Jean–Marc Valin, CSIRO
- Marcin Lubonski, CSIRO
- Mikko Leppanen, Nokia
- Robert Glidden, SUN
Hobbyists

- Xiph/Annodex:
  - Andre Pang, Annodex
  - Conrad Parker, Annodex
  - John Ferlito, Annodex
  - Christopher Montgomery, Xiph
  - Michael Dale, Metavid
  - Mike Smith, Fluendo
  - Ralph Giles, Xiph
  - Shane Stephens, Annodex
  - Silvia Pfeiffer, Annodex
  - Timothy Terriberry, Xiph
- Community Groups/Users:
  - Andrew Lowenthal, TacticalTech
  - Anna Helme, Engagmedia
  - Eric Dantan Rzewnicki, Debconf video
- Linux Audio:
  - Erik de Castro Lopo, libsndfile
  - James Courtier-Dutton, Alsa
  - Lennart Poettering, pulseaudio
  - Stefan Westerfeld, beast
Sponsors

- Mozilla Foundation
- Google
- Sigil Studios
Achievements FOMS 2007

- **liboggz** is a library that is now commonly used for implementing Ogg support in applications
- **liboggplay** is a mature library that will be introduced into Firefox 3.x for providing Ogg Theora/Vorbis support
- **PulseAudio** has been adopted by Fedora and will be in Ubuntu
- a new PCM audio API has been defined and a library is being developed called **libsydney**
- **MetavidWiki** is now a video wiki developed for Mediawiki and possibly will be adopted by Wikipedia
- **Dirac** is a competitive free, next-generation video codec and approaching 1.0
- **libspeex** now offers a **BSD-licensed basic sample-rate converter** which is being tested within alsa
Community Goals 2008

1. Patent FUD around open codecs
2. RTP streaming for open codecs
3. Video and audio metadata specifications
4. Open web video technology
5. Comprehensive open media software tools
6. Cross-platform audio API for PCM audio capture and playback
7. Next-generation container formats
Patent FUD

How to deal with patent FUD?
• document, document, document - put everything on record
• essentially build up your own virtual "patent pool" through documents
• also publish why you think you're unencumbered
• build up a body of allies & supporters
RTP/RTSP streaming

- develop a specification of Dirac over RTP
tracks to CMML to describe dependencies between
create a skeleton description format separate
improve the design of CMML
subtitles is CMML
the binary media files
OGG recommends for metadata and
design metadata so it can be multiplexed into
many metadata formats exist, but we need to

Metadata
Tool Support

- talk to people to find out what applications are required and prioritise them
- one low-hanging fruit is the development of ffmpeg2dirac based on ffmpeg2theora
- development of gui wrappers to ffmpeg2theora for major OSs?
- development of a browser extension for ffmpeg2theora for hosting sites, such that the transcoding is done client-side
Web video

- encourage W3C to undertake a patent search and put out a call to patent holders to speak up now
- research javascript API inconsistencies and provide feedback to WHAT WG as input to the HTML5 standard
- encourage mv_embed adoption in CMSs
PCM Audio API

- complete the design of libsydney
- finish first full implementation of libsydney
Next-Gen Container Formats

- proposed improvements to Ogg need documentation
- extract bit packer out of libogg to avoid perception that Xiph codecs can only be used within Ogg
Long-term goals

- Create implementations for Vorbis and Theora over RTP
- Extend open media tool support for transcoding, editing, hosting
- Work towards best practices to do platform-independent audio
Wrap-Up

- FOMS attendees are “rock stars” in the multimedia field
- Holding FOMS pre-LCA is helpful to gain better attendance
- Lots of awesome work originates at FOMS
- FOMS ROCKS!!!