Who am I?

• Davy Van Deursen
  – post-doctoral researcher
    • @ Ghent University - IBBT, Belgium
  – member of the W3C Media Fragments Working Group
  – main research interests
    • metadata modeling – Semantic Web technologies
      – with focus on multimedia applications
    • adaptation and delivery of media resources
    • video coding (scalable, next-gen, ...)

What is my project?

• NinSuna
  – media delivery platform
    • through HTTP or RTSP
  – based on a model for media bitstreams
    • implemented with Semantic Web technologies
  – format-independent adaptation & packaging
    • currently supported
      – H.264/AVC, AAC, Ogg Theora, Ogg Vorbis
      – MP4, 3GPP, RTP
  – manages both media and their (RDF-based) metadata
  
NinSuna: activities

• Provide a server-side implementation for the Media Fragment URIs
  – e.g., http://foo.com/media.ogv#t=10s,20s
  – use NinSuna in the back-end for adaptation operations (track & temporal selection)

• Extend the platform with more media formats
  – Dirac, Ogg Skeleton, ...
  – MPEG-2 TS (Apple’s HTTP Live streaming)

• Explore the world of mobile media delivery
  – device detection and smart adaptation decision-taking
  – mobile Media Fragment URI support (Android focus)
NinSuna: challenges

• Media fragment clients for NinSuna
  – browser-based
    • client vs. server media fragment processing
  – mediaplayer-based
    • initial experiments with VideoLan Client
  – track (or metadata?) discovery problem
    • initial experiments with own model and ROE

• Mobile media delivery
  – delivery method
    • HTTP progr. dl., RT stream., HTTP stream.
  – codec support? (Ogg?)
    • focus on Android media player