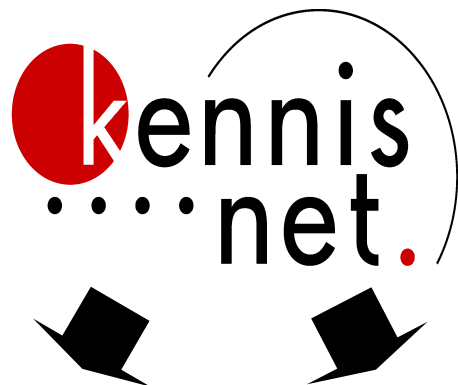
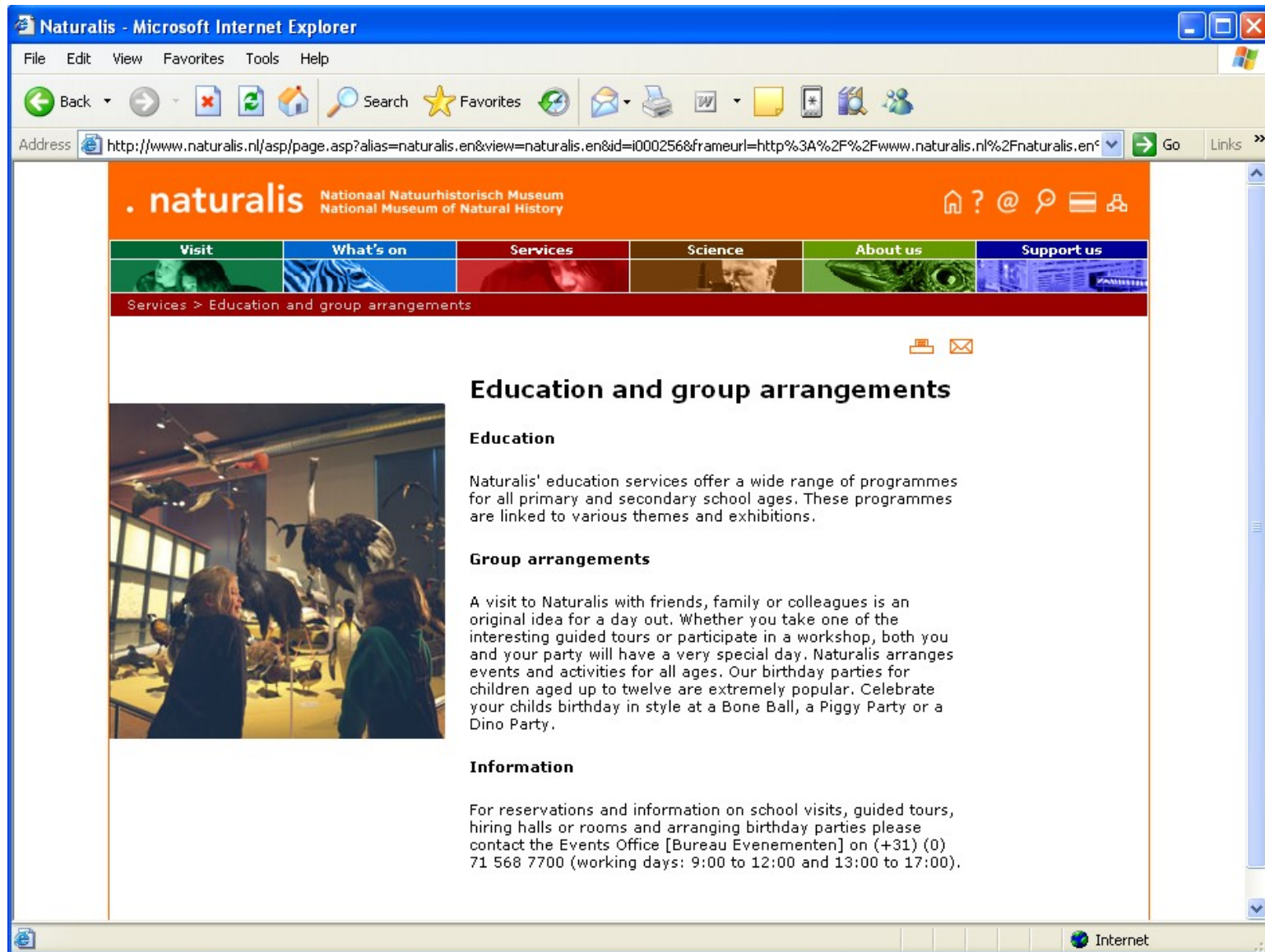


Expert at a distance

Creating a marketplace where expertise is made available through videoconferencing

Roland Staring – Community Support Manager
roland.staring@surfnet.nl





A one year pilot



- 5 secondary schools
- High bandwidth connections (> 100 mbit/s)
- H323 hardware videoconferencing kits
- Workshop for educators & technicians



Expert at a distance sessions

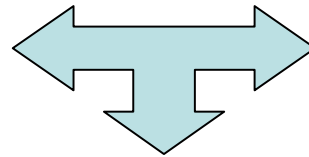
- Content based sessions
 - Society and culture
 - Engineering and science
 - Music and art
 - Languages
- International sessions
 - Sharing stories
- Study and career
 - Job choice support
 - Study choice support



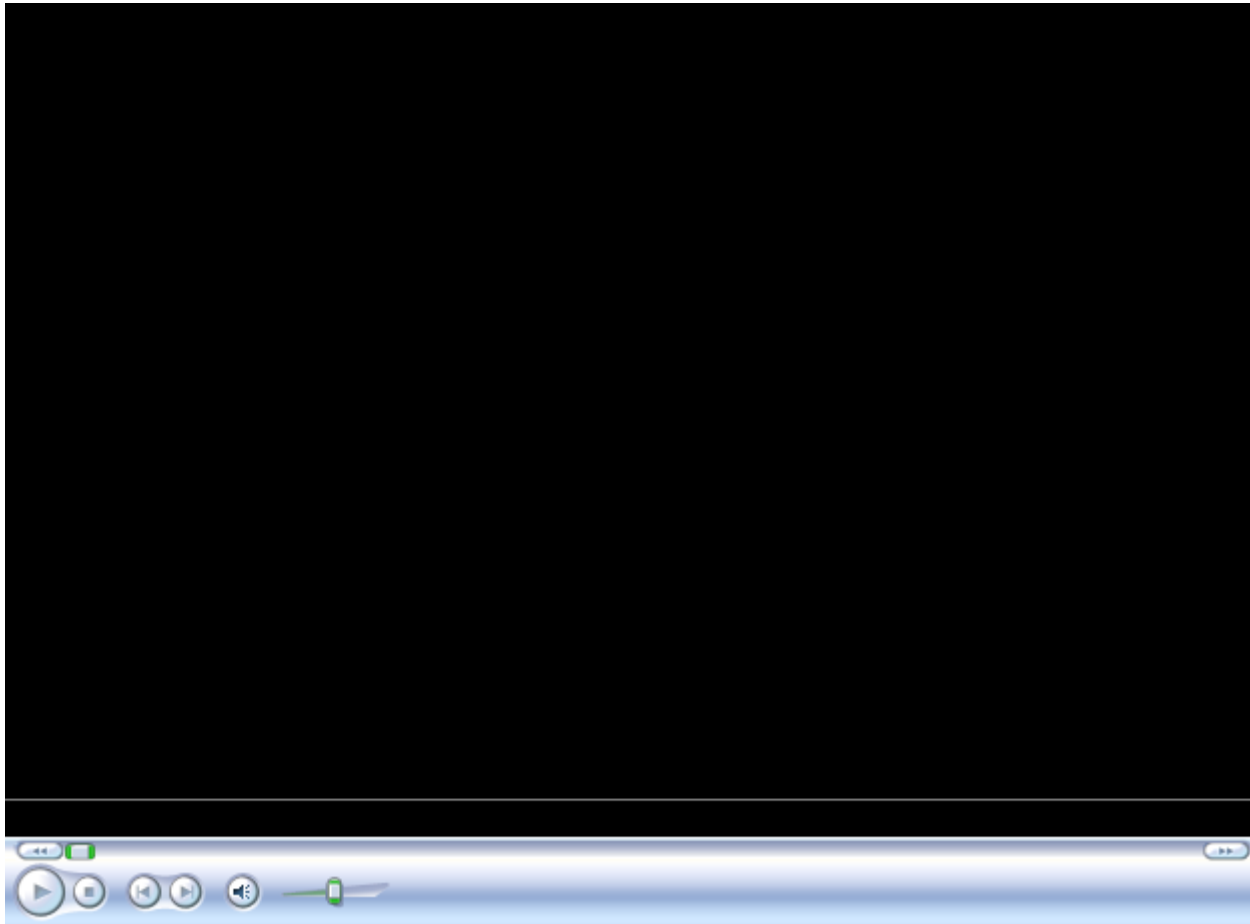
Migration - a comparison with America



Sharing stories with Palestine

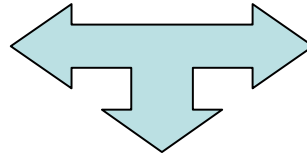


Sharing stories with Palestine

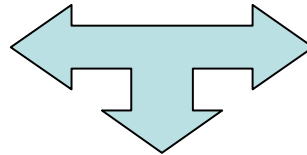
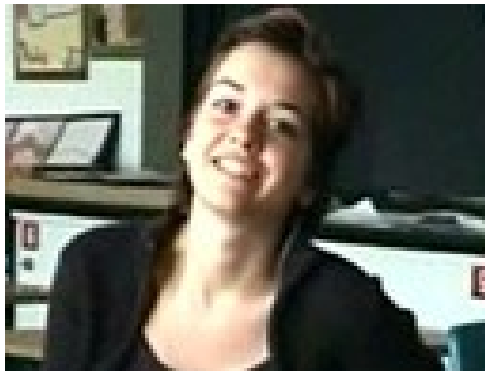


<http://www.expertopafstand.nl/conferencingindeklas/bekijkeensessie/sharingstories>

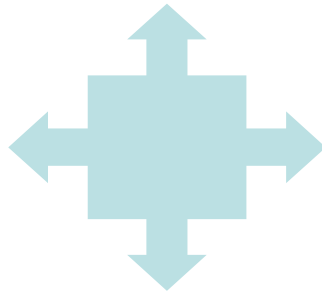
Ask a nurse or technician



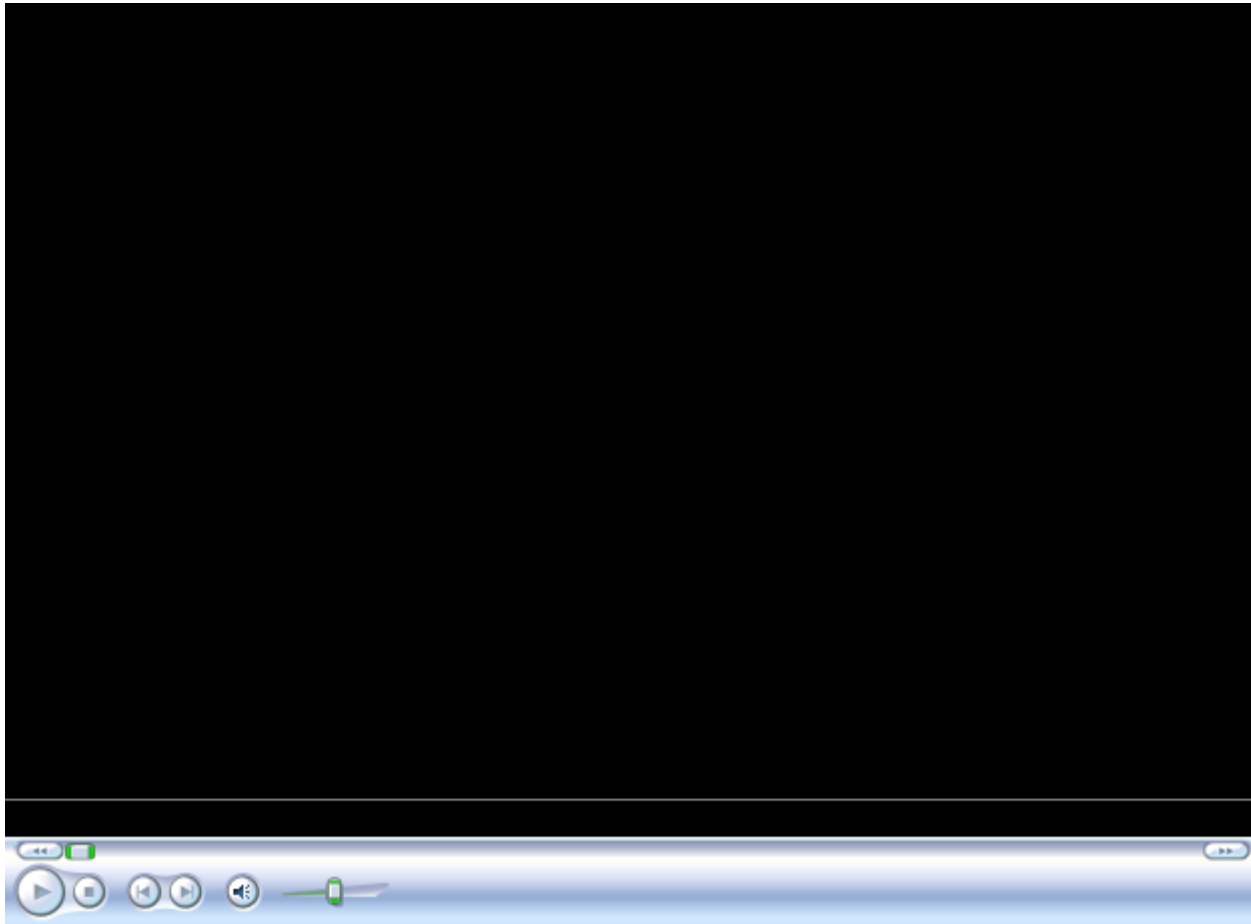
Does extra-terrestrial life exist?



What is it like to be a professional dancer?



What is it like to be a professional dancer?



<http://www.expertopafstand.nl/conferencingindeklas/bekijkeensessie/nationaleballet>

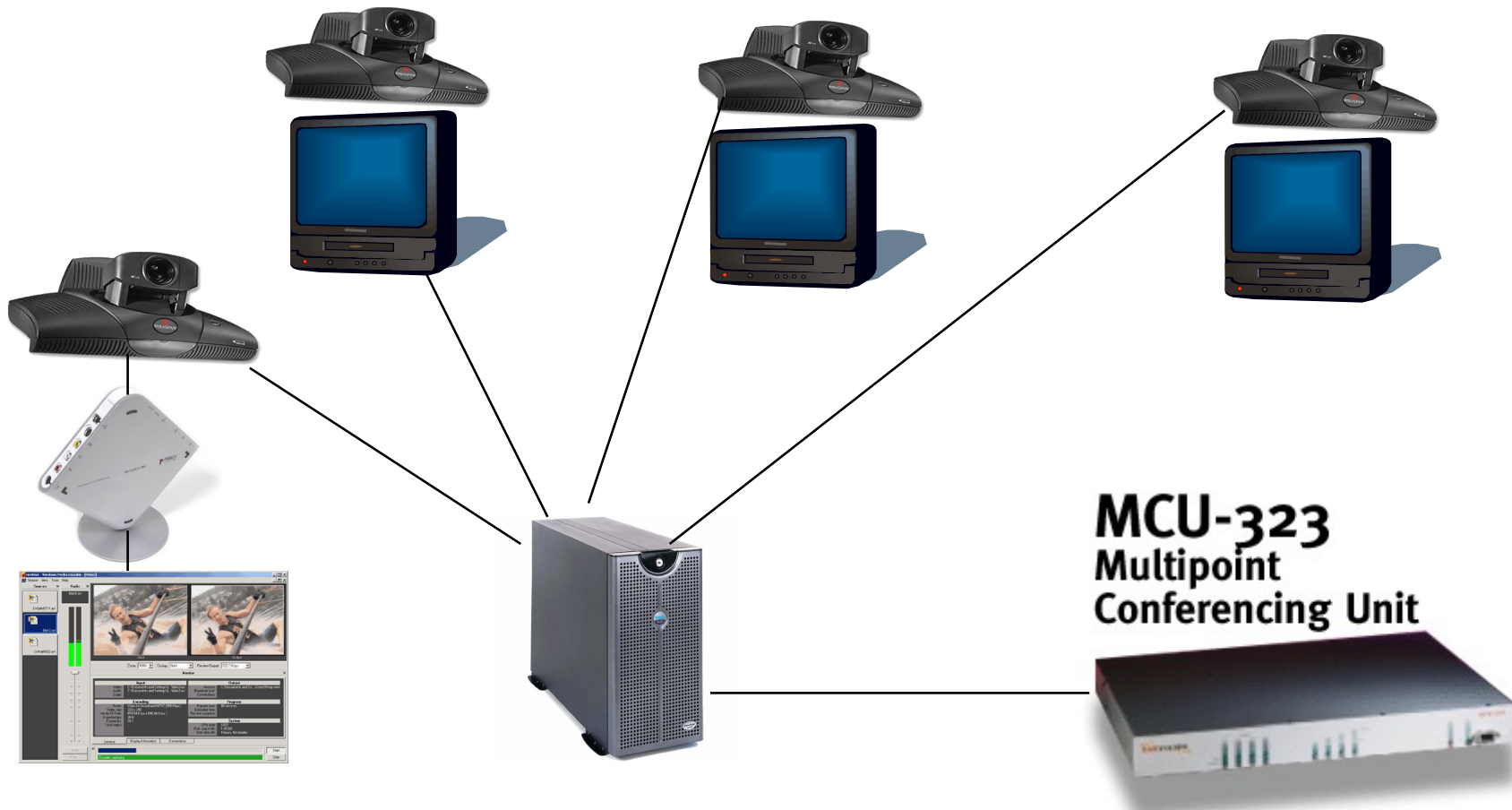
Lessons learned - technical

- Test everything before the session starts
- Instruct everyone to 'mute' when not talking
- Have one technical contact person on every site
- Send an email with technical details
 - Containing the number to call
 - The exact times of actual and test sessions
 - A normal telephone number to call in case of problems
- Always use an MCU

Lessons learned - organisational

- Have the pupils prepare their questions in advance
- Explain the expert how the videoconference set works
- Have a session coordinator
 - To keep time
 - To prevent experts from giving long answers
- The participating schools should be motivated to participate (supported by management)
- Have a school evangelist to support the sessions
- Support the early adopters
- Let the schools decide on the experts

Technical set-up



Technical problems

Port	Type	Description	H323 Client	H323 MCU	H323 Gatekeeper
80	Static TCP	HTTP Interface (Optional)			
389	Static TCP	ILS Registration (LDAP)	x		
1502	Static TCP	T.120	x	x	
1718	Static UDP	Gatekeeper Discovery	x	x	x
1719	Static UDP	Gatekeeper RAS	x	x	x
1720	Static UDP/TCP	H323 Call Setup	x	x	
1731	Static TCP	Audio Call Control	x	x	
1024-65535	Dynamic UDP	H245 Call Parameters	x	x	
1024-65535	Dynamic UDP	RTP (Video Data Streams)	x	x	
1024-65535	Dynamic UDP	RTP (Audio Data Streams)	x	x	
1024-65535	Dynamic UDP	RTCP Control Information	x	x	

Tabel 1 – Poorten die door H323 gebruikt worden

Webconferencing vs Hardware



Webconferencing



Attendee List (4)

My Status

- Waldo Smeets
- Andres Steijaert
- Roland Staring
- Waldo Mac

Camera and Voice

Waldo Smeets Roland Staring Andres Steijaert

Wat is de mooiste omgeving?

Wat is de mooiste omgeving?

- Breeze Live 0
- C2M 0
- Marratech 0
- No Vote

☐ Broadcast Results

Prepare Open Poll Close Poll 0/4

Chat

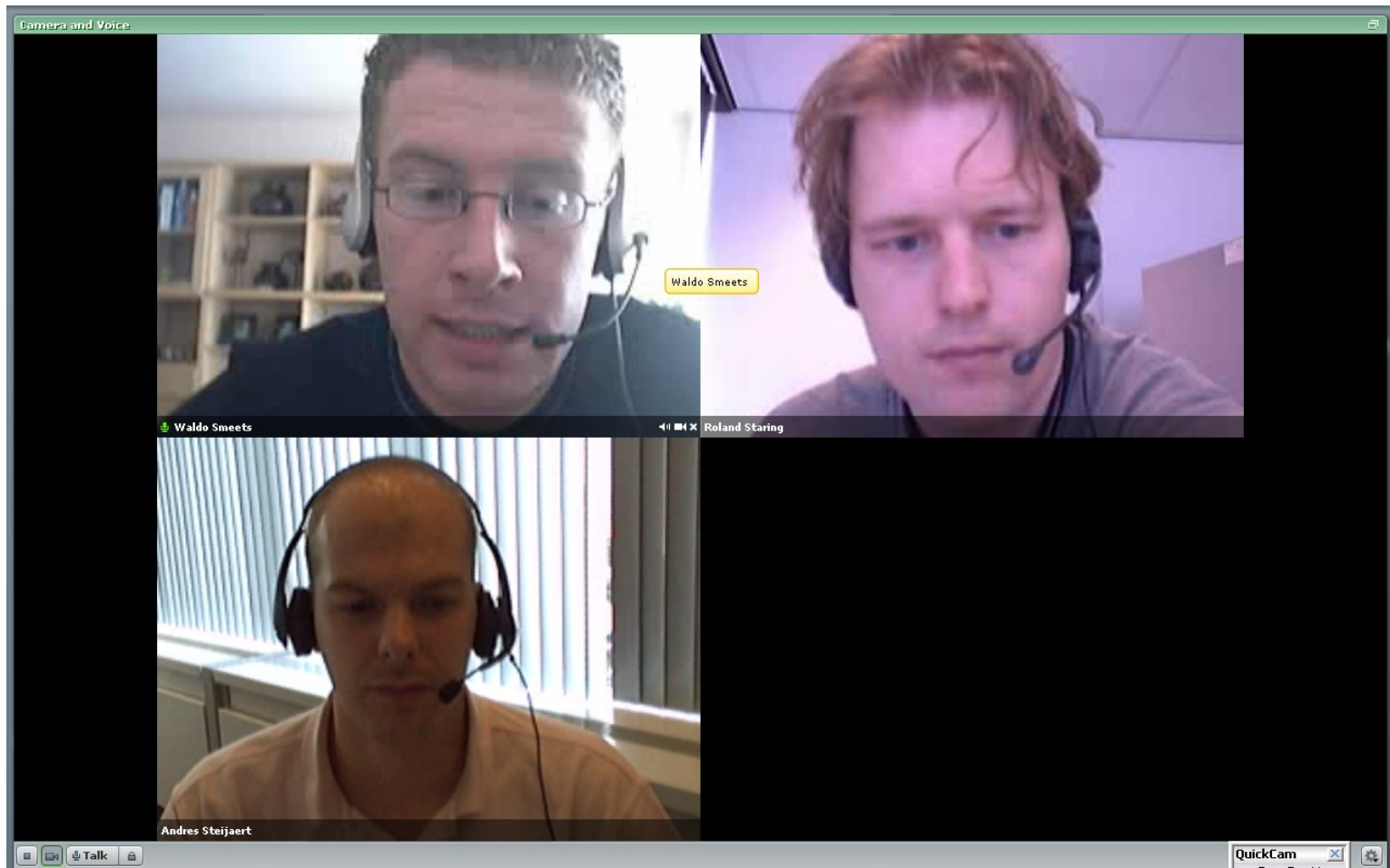
Andres Steijaert: hallo!
Roland Staring: ja
Roland Staring: hoor jij ons ook?
Roland Staring: ja webcam en audio
Roland Staring: ja
Andres Steijaert: doe maar gelijk VOIP
Roland Staring: we geven de voorkeur aan het doen via VoIP
Andres Steijaert: wij hebben al getest
Andres Steijaert: zaten zojuist nog in een sessie
Andres Steijaert: heb ik de rechten al?
Andres Steijaert: Waldo, ik heb volgens mij de juiste rechten niet
Andres Steijaert: Ik zie mijn eigen chat text ook niet
Andres Steijaert: xp doos
Andres Steijaert: zojuist nog een breeze sessie gedraaid
Andres Steijaert: en die ging goed
Andres Steijaert: dit is beter!
Andres Steijaert: ok!
Roland Staring: AH we worden opgenomen ;)
Waldo Smeets: verkeerde klik
Roland Staring: audio lijkt weg te vallen
Roland Staring: ah daar ben je weer
Waldo Smeets: <http://macromedia-v5.emea.breezecentral.com/p68592446/>
Waldo Smeets: ja ik was met de settings aan het spelen
Waldo Smeets: moment, ik ben er nog hoor :-)
Andres Steijaert: je audio valt weg
Waldo Smeets: ik snap het
Waldo Smeets: als je settings anders zet dan wordt automatisch de mic uitgezet
Waldo Smeets: nog 1 testje, moment
Andres Steijaert: ok

Note

Conference Number(s): 020 7132918
Participant Code: 289560

To: Everyone

Webconferencing



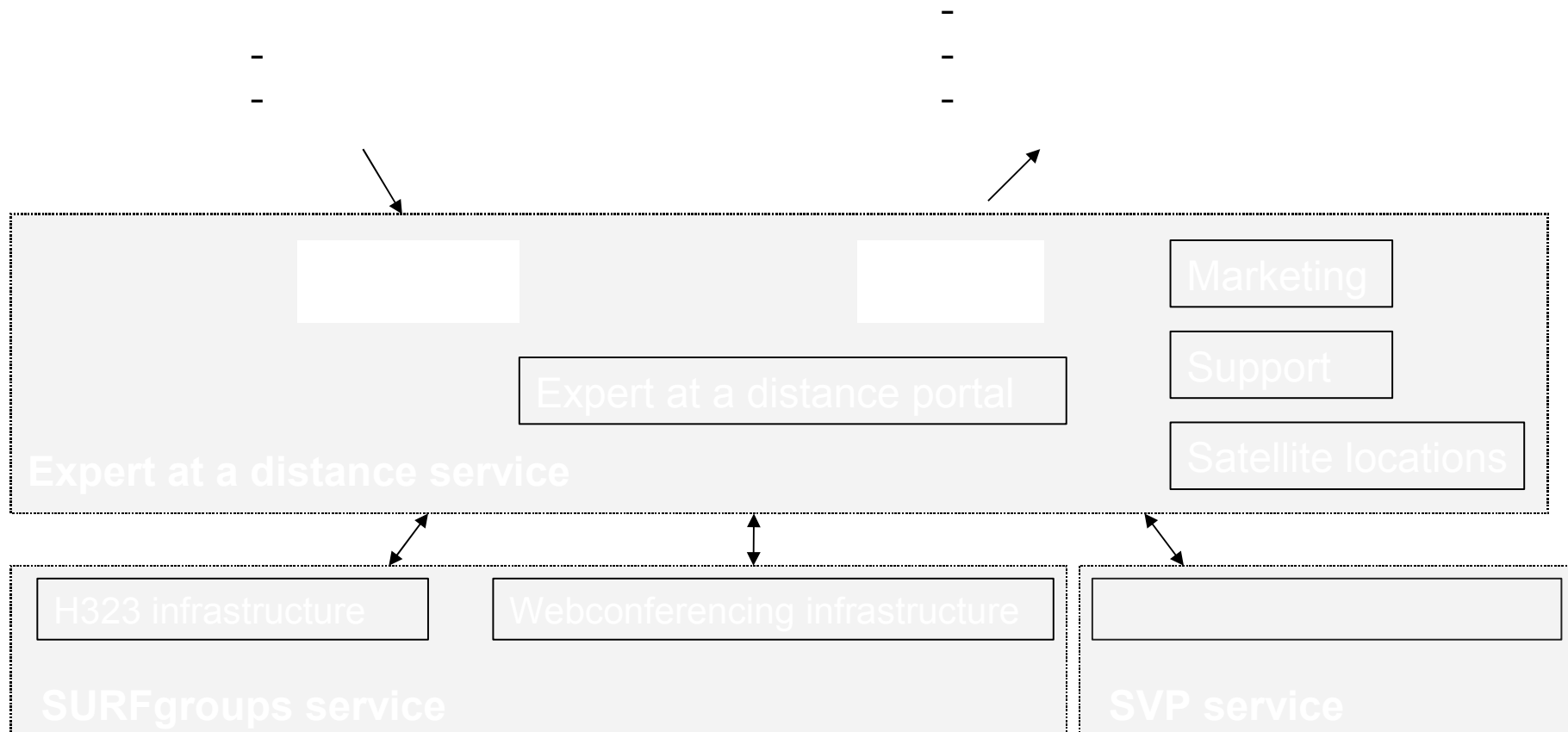
Expert at a distance service

Project

Service
(experimental)

Service

A virtual marketplace



Satellite locations for experts



Questions



-
-
-
-
-

-
-
-