Conferencing & *Collaboration*

from Desktop to Robot

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Preface

- *Please note that graphics & URLs in this presentation are hyperlinked, as is some text, for more information about their origin & use*
- *Hopefully, much of the information will stand alone, or benefit from the included links*
- *Please do get in contact with any comments, queries or interest in further discussion:*

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Roles for Education Technology?

- Collect, Compute, Communicate, Community?
- Shifting Time, Place, Materials?
- Digital Innovation – Divide or Abundance?

Shifting Time

- Asynchronous technologies
- Connect people at different times (1s-years)
- E-mail, File shares, BBS, Forum, Blog, Web

Shifting & Extending Place

- Synchronous & asynchronous technologies
- Can connect people immediately
- Chat, Conferencing, Collaboration

Conferencing & Collaboration

- Bridge distances within, beyond the University community
- Save time, expense and travel - improve overall carbon footprint
- Provide practical additions to IT tools, skills
- Enable frequent & otherwise impossible meetings, courses, interviews, support, & sharing of screens (*one-way or interactive*)

Three key, overlapping areas

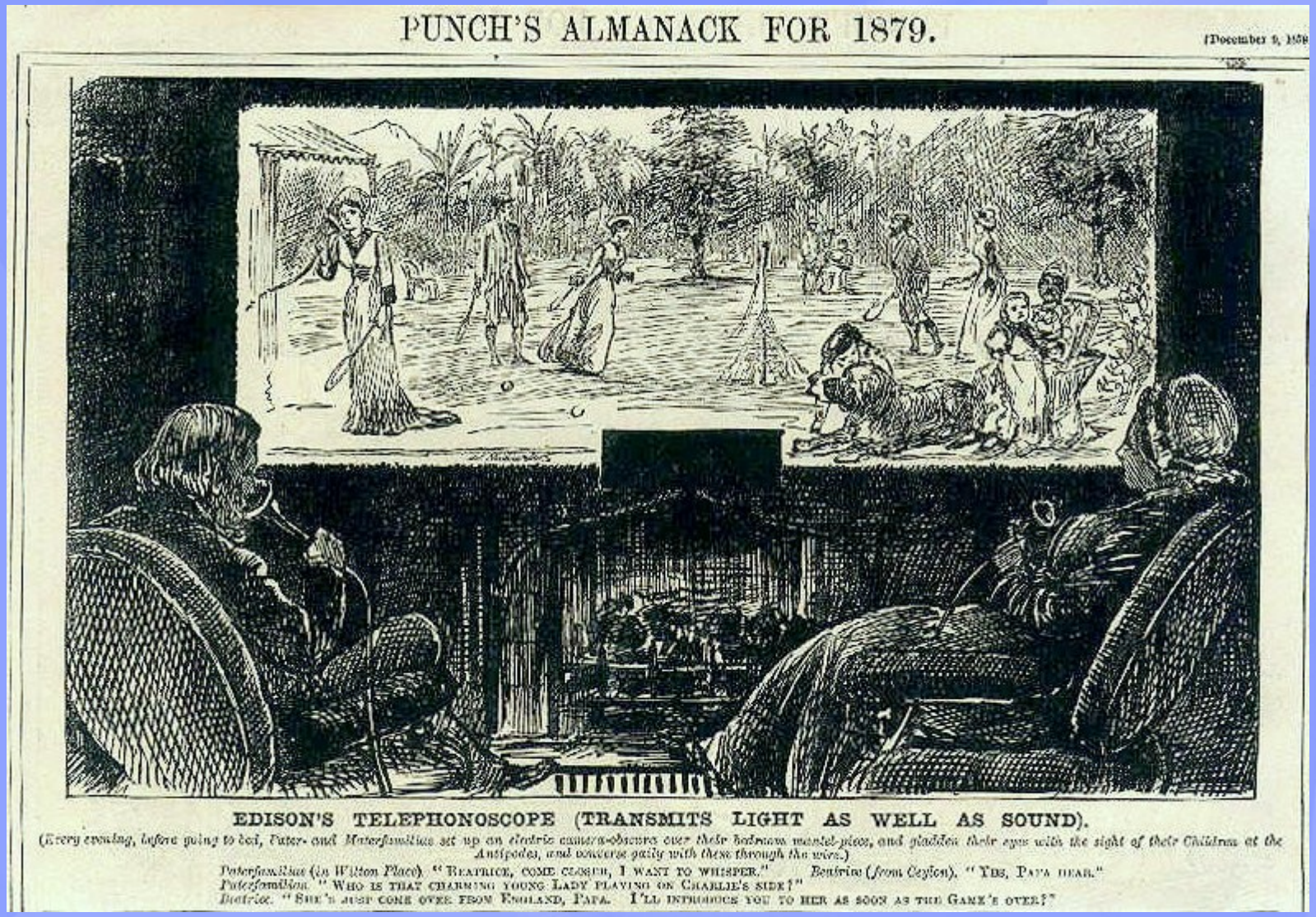
- Web / Desktop Conferencing
- Desktop Collaboration
- (Unified) Communication

- Commercial options (e.g. Adobe Connect, Blackboard Elluminate, Cisco Webex, ...)
- Community options (e.g. BigBlueButton, OpenMeetings, Concert-oh ...)

Conferencing options

- Audio Conferencing
  - (e.g. telephony, VoIP)
- Videoconferencing
  - (e.g. videoconferencing suite or portable)
  - (e.g. ISDN, IP-based / H.323)
- Desktop (or Web) Conferencing
  - elements of audio/videoconferencing, and more
  - VoIP, telephone link, video - most via Web
  - various protocols, standards, interconnections

Early Days of Conferencing (1879)?



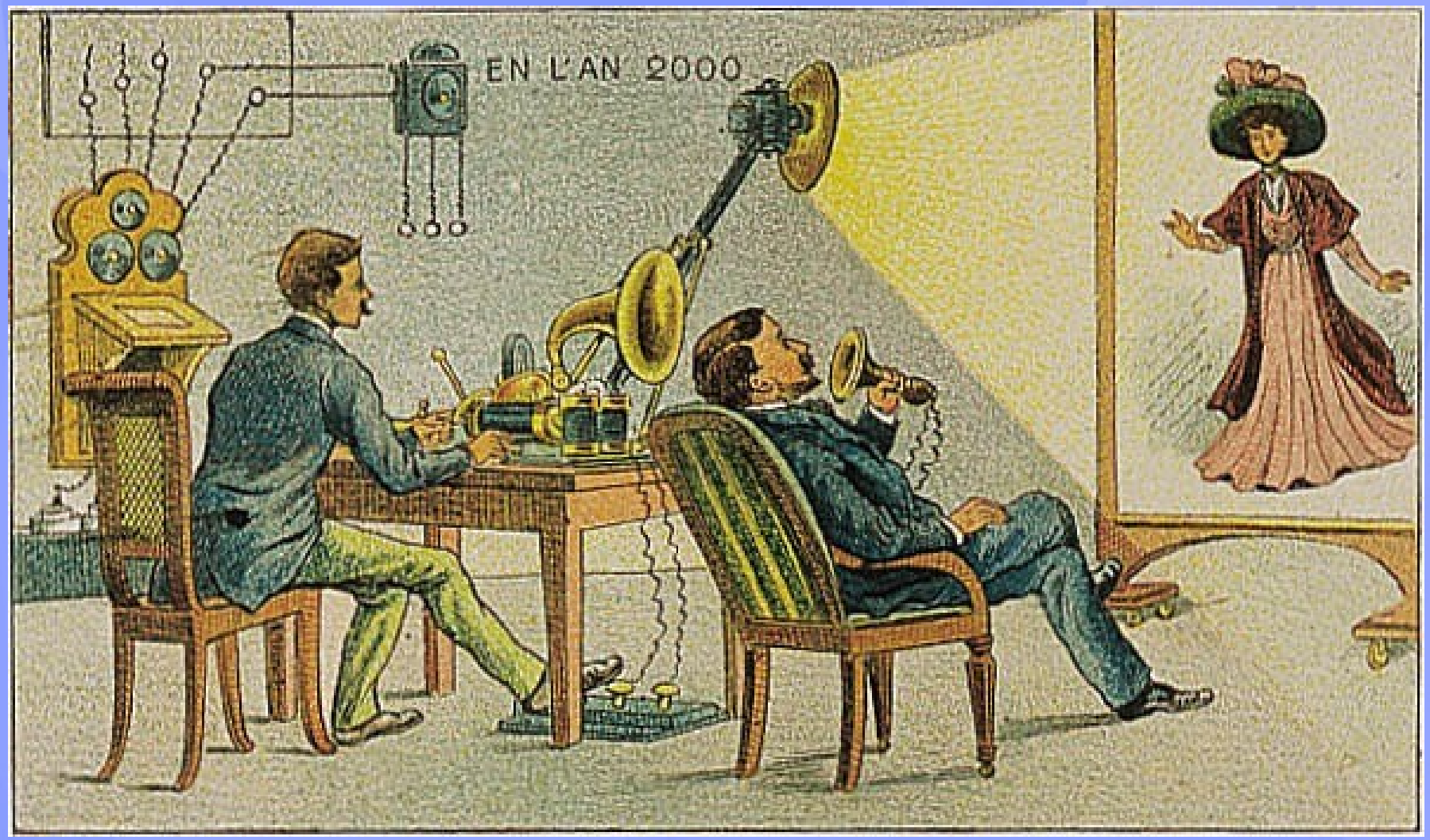
PUNCH'S ALMANACK FOR 1879.

EDISON'S TELEPHONOSCOPE (TRANSMITS LIGHT AS WELL AS SOUND).

(*Every evening, before going to bed, Pater- and Materfamilias set up an electric camera-obscura over their bedroom mantel-piece, and gladden their eyes with the sight of their Children at the Antipodes, and converse gaily with them through the wire.*)

Paterfamilias (*in Wilton Place*). "BEATRICE, COME CLOSER, I WANT TO WHISPER." *Beatrice* (*from Ceylon*). "YES, PAPA DEAR."
Paterfamilias. "WHO IS THAT CHARMING YOUNG LADY PLAYING ON CHARLIE'S SIDE?"
Beatrice. "SHE'S JUST COME OVER FROM ENGLAND, PAPA. I'LL INTRODUCE YOU TO HER AS SOON AS THIS GAME'S OVER!"

Early Days of Conferencing (1910)?

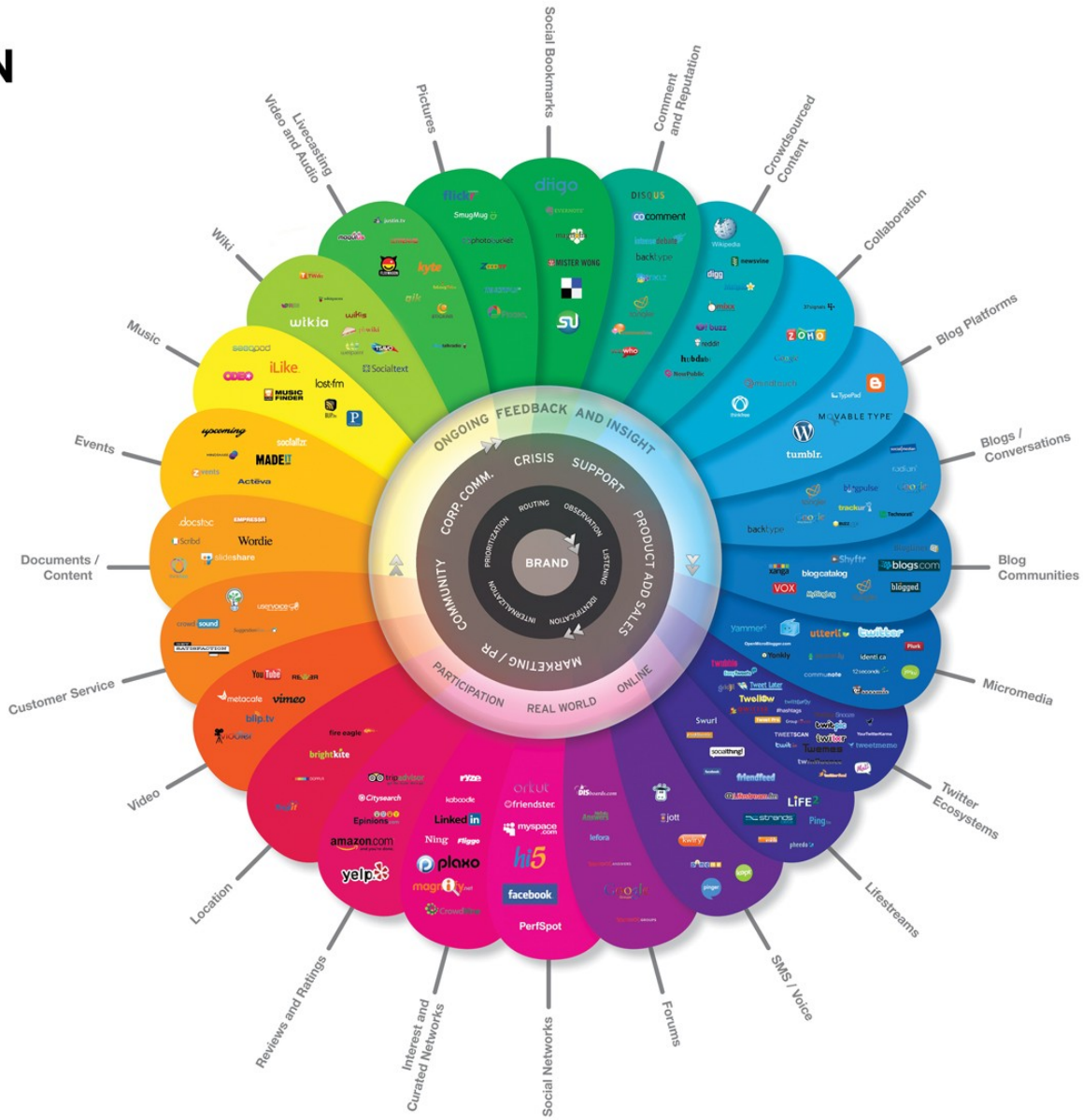


Collaboration (broad areas)

- Wiki, BBS, Forum
- Photo, Music, Video
- Social Networking
- Crowdsourcing
- Online docs, office products

THE CONVERSATION PRISM

Brought to you by Brian Solis & JESS3



theconversationprism.com

Desktop Collaboration

Some common features (with wide variations):

- shared presentations (e.g. slide shows, spreadsheets, documents, video, Web tours)
- shared White board (annotation, open use)
- text chat, instant messaging, Q&A, polls, surveys, quizzes
- screen/desktop/application sharing
- session recording, playback, sharing
- Web-based (Windows, OS X, Linux support)

General Use Cases

1. One to one - ‘Tutorial, Chat’
   planning, remote team working, training and support

2. One to many - ‘Talking Head’
   interviews, presentations, connect to conferencing room

3. Many to many - ‘Distributed Committee’
   usually conferencing suites, or better desktops for clusters

4. Mixed clusters and individuals - ‘Distributed Teams’
   individuals interact with multiple groups and individuals

Screens

Future of our Desktops?

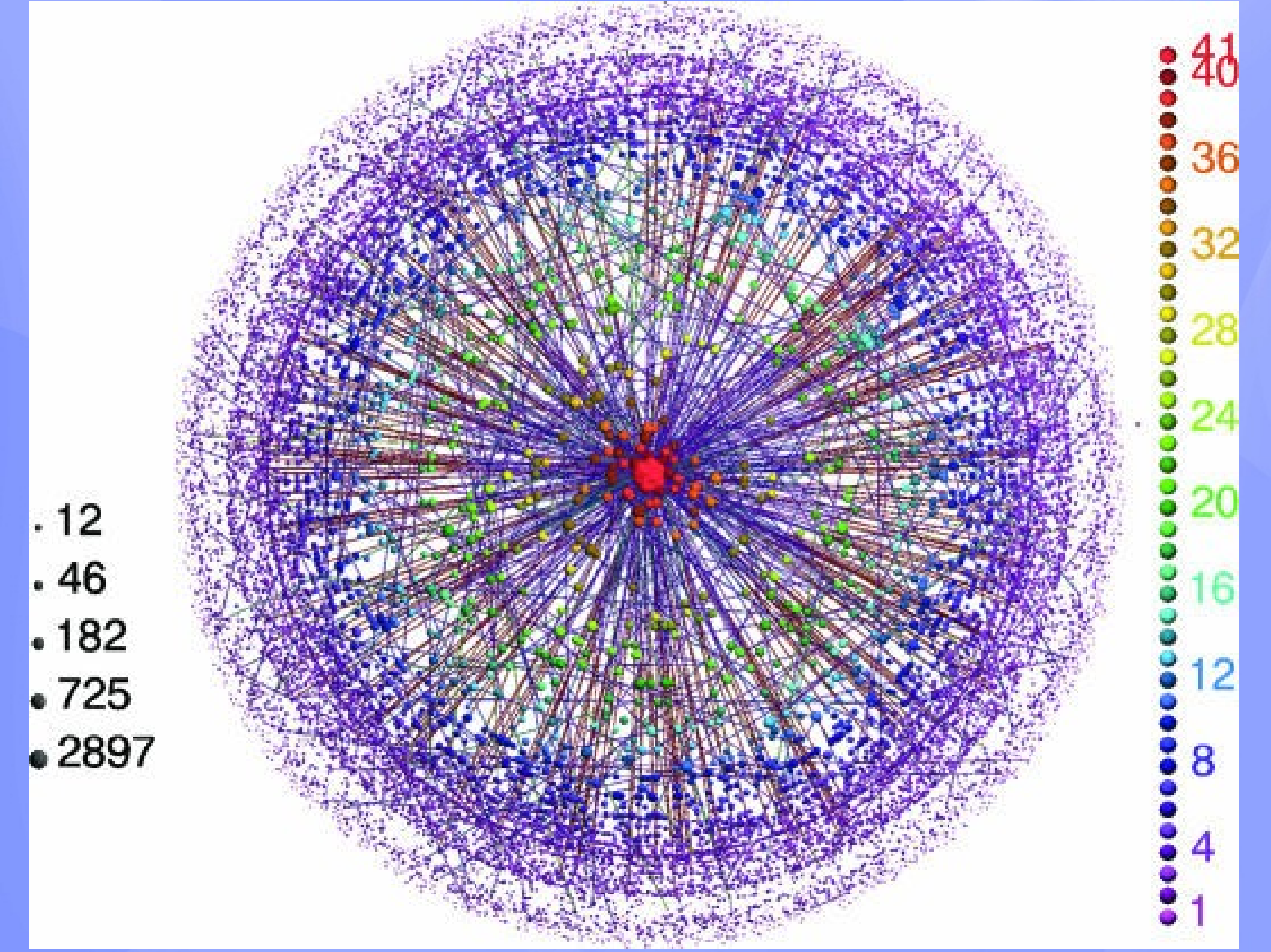
More Telepresence Robots

- Sparky (on Modern Marvels)
  - http://youtu.be/o_3sDzQJnII
- iSparky Telepresence Robot
  - http://youtu.be/SKcwfVC-r_Q
- Anybots QB Telepresence Robot
  - http://youtu.be/oN1lQcJHpO8?t=6s
- Giraff (*for virtual home visits*)
  - http://vimeo.com/26273670

Breaking the Internet?

Projections from Cisco Visual Networking Index:

- By the end of 2010 Internet video traffic would surpass peer-to-peer (P2P) traffic (largest traffic type since 2000)
- By 2014, IP traffic will quadruple; the sum of all forms of video will exceed 91% of global consumer Internet traffic
- video on demand traffic will double every 2.5 years, generating 11 exabytes per month
- face-to-face video talking via the Internet will grow 700%
  – will become an expected communication
- Web-based video conferencing will grow 180-fold
  – (from 2009, fastest growing within the business forecast)


12
46
182
725
2897
41
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36
32
28
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4
1

Shifting Materials

- e.g. Fab Labs
  - Prof. Neil Greshenfeld,
    Centre for Bits & Atoms, MIT
    http://youtu.be/Y9HDMmyDwjE
- Fab Lab Manchester
  http://www.fablabmanchester.org

Some Related Resources

- The Virtual Presenter (web-based seminars blog)
  - http://www.thevirtualpresenter.com
- Adobe Connect Overview
  - http://www.adobe.com/products/acrobatconnectpro/demo/
- Using Elluminate: A Brief Overview
  - http://youtu.be/sVQQR9UoM1I
- WebEx The Movie
  - http://youtu.be/qhbjnR6b3Aw
- Concert-oh (see: Getting Started)
  - http://www.concert-oh.com