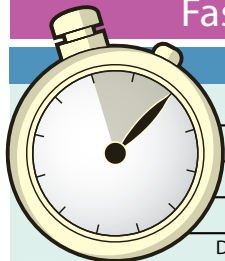


# The Broadband Future

Broadband is today's transformational technology, taking us in exciting new directions . . .

## Faster web access

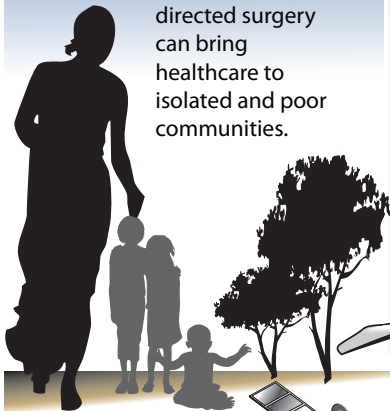


Download	256kbp/s	2Mbp/s	100Mbp/s
Google home page	5s	0.6s	0.64s
Music track	2m36s	2s	0.40s
Video clip	10m5s	1m20s	1.60s
CD/low-quality movie	6h	47m	55s
DVD/high-quality movie	34h17m	4h29m	5m

## E-health

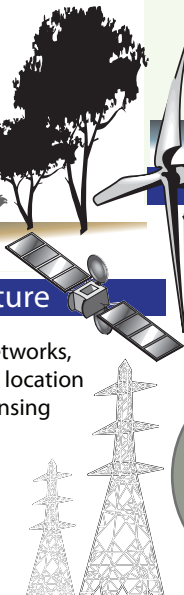


Remote diagnosis, video consultations and remotely directed surgery can bring healthcare to isolated and poor communities.



## Smart infrastructure

Intelligent transport networks, smart grids, GPS-based location services and remote sensing technologies are improving safety and reducing our environmental impact.



## Distance learning

The world's largest universities are distance-learning institutions – the Indra Gandhi National Open University in New Delhi, with 3 million students, and the Allama Iqbal Open University in Islamabad, with 1.8 million.



## The "Internet of Things"

Tiny RFID chips and always-on systems mean machines are beginning to interact without human intervention. The number of connected objects – cars, appliances, cameras, roadways, pipelines – will reach one trillion by 2011.

RFID chip

