

# BENEFITS OF THE NBN

The National Broadband Network will turbo-charge our digital economy and enable Australia to become a global leader in using the online world – the world of the 21st century. The NBN will provide the infrastructure that will allow retail service providers to deliver advanced digital services to the nation. It will make possible new and improved ways of connecting with one another, from lifestyle and business to health and education.

## Better business solutions



Transforming the way Australians can do business by:

- Increasing productivity and reducing the time wasted waiting for information to be downloaded.
- Providing better workplace flexibility – greater opportunity to work from home with fast, efficient access to information.
- Opening new and distant markets through high-speed interaction with customers.
- Lowering work expenses – instead of work-related travel, broadband offers reliable, real-time alternatives, such as web-conferencing.
- Offering superfast access to market information. From financial markets to agribusiness, the network will allow you to access superfast information to enhance your business performance.

## The future of business

A national company with headquarters in every capital city holds its monthly management conference online, saving time and expenses associated with travelling to and from the meeting.

An agricultural business manages its irrigation systems remotely, accessing real-time radar weather reports, and more efficiently liaises with its suppliers and agents across Australia and internationally at the touch of a button and via video conference.

## A better education for a brighter future



Helping Australia be a global leader in 21st century educational innovation by:

- Improving the ability of our schools to access information, collaborate and communicate with each other.
- Supporting new learning and teaching practices, such as virtual classrooms, video and audio streaming and high definition video conferencing.
- Preparing students for future education, training and life in an increasingly digital world.
- Providing teachers, parents and schools with rapid access to data.

## The future of education

No more blackboards. The classroom is an interactive environment where the teacher uses the latest technology to inform, educate and engage students.



## Improved medical technology

Assisting the medical community in a variety of ways by:

- Narrowing the medical gap between urban and rural Australians and expanding access to care through the use of telemedicine for clinical care programs.
- Improving the quality of care for Australians by linking patients and practitioners to top specialists through real-time internet consultations.
- Bringing more care into the home through remote monitoring.
- Addressing current health shortages through internet-based care that connects doctors to communities where medical resources are in short supply.

## Our medical future

Rural and regional cancer patients consulting with their oncologist and local doctor at the same time, from the comfort of their own home via video conference – providing greater comfort, time savings and reduced travel cost.



## Endless entertainment

Allowing you to watch, listen to or play what you want, when you want. Download an album in seconds and a movie in minutes. Spend less time waiting and more time enjoying.

The NBN aims to enable speeds of up to 100 Megabits per second to 90 per cent of Australian premises and up to 12 Megabits per second to the remaining 10 per cent. These speeds are of course dependent on factors such as the retail package you choose from your retail service provider and your chosen hardware and premises connection.



How fast is 100 megabits per second? The following table provides a general comparative guide on estimated download speeds.

## The future of entertainment

Sample file	Estimated download speed*				
	56kbps	1.5Mbps	8Mbps	20Mbps	100Mbps
4MB (Average MP3 song)	9 mins 31secs	21 secs	4.2 secs	1.8 secs	<1 sec
350MB (Average 1 hour television episode in SD)	13 hours 53 mins	30 mins 23 secs	5 mins 50 secs	2 mins 20 secs	28 secs
1000MB (Average 2 hour movie in SD)	39 hours 53 mins	1 hour 26mins	16 mins 40 secs	6 mins 40 secs	1 min 20 secs
10000MB (Average 2 hour movie in HD)	17 days	14 hours 49 mins	2 hours 47mins	1 hour 7mins	13 min 20 min

\* These estimated speeds are theoretical maximum speeds. Actual speeds depend on a number of factors such as distance from the local telephone exchange, quality of phone line, volume and nature of services used in local area, and hardware and software set up of computer.