

Hear and Say Way: The Power of Technology for Children with a Disability

WITFOR 2012 India

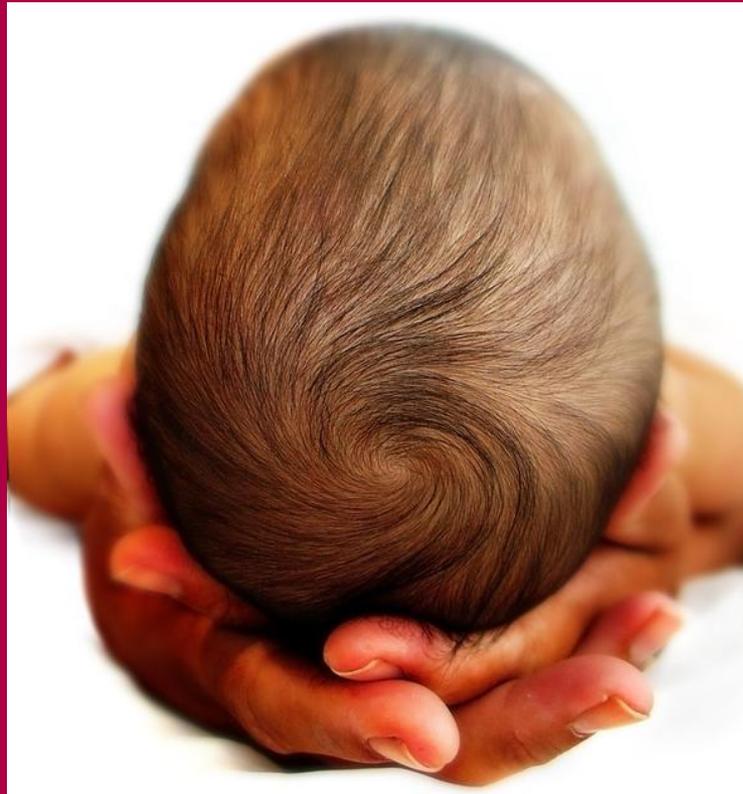
Dr Dimity Dornan AM

Managing Director and Founder

Hear and Say, Queensland, Australia

What if?

... we could eradicate the impact of the most common disability in newborns globally?



Dimity's impossible dream



New life ... the search continues

... for better ways to treat deafness



There are better ways ...



Innovation

... is life-changing for children with hearing loss



Nature inspires innovation ...



Natures inspires technology too

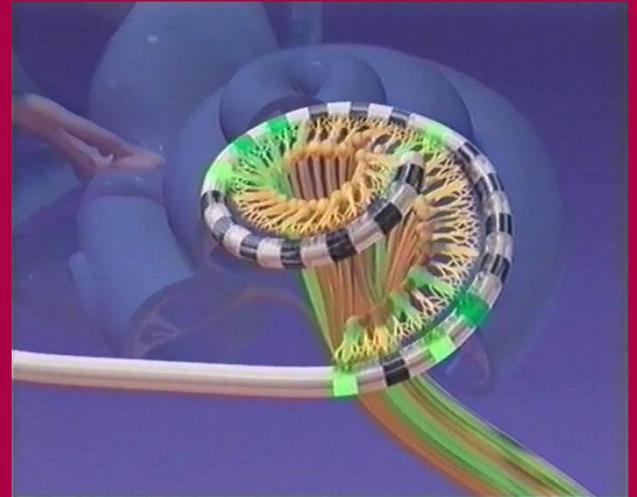
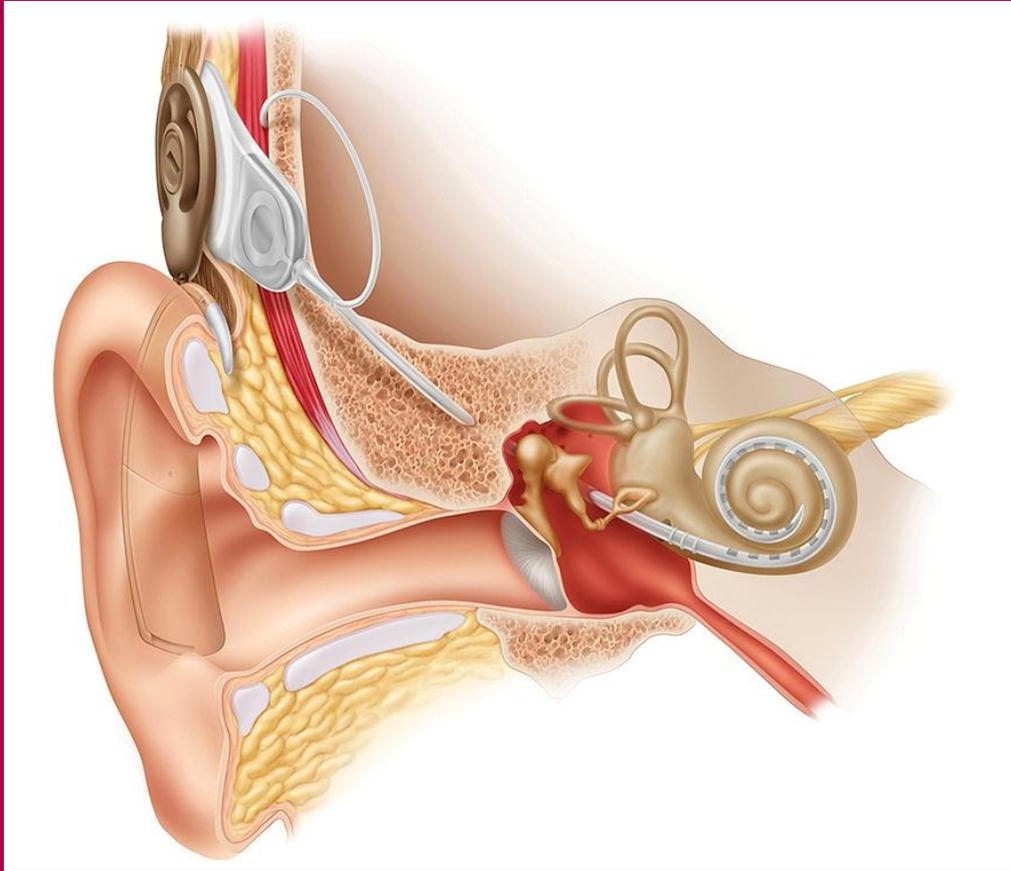


The cochlear implant



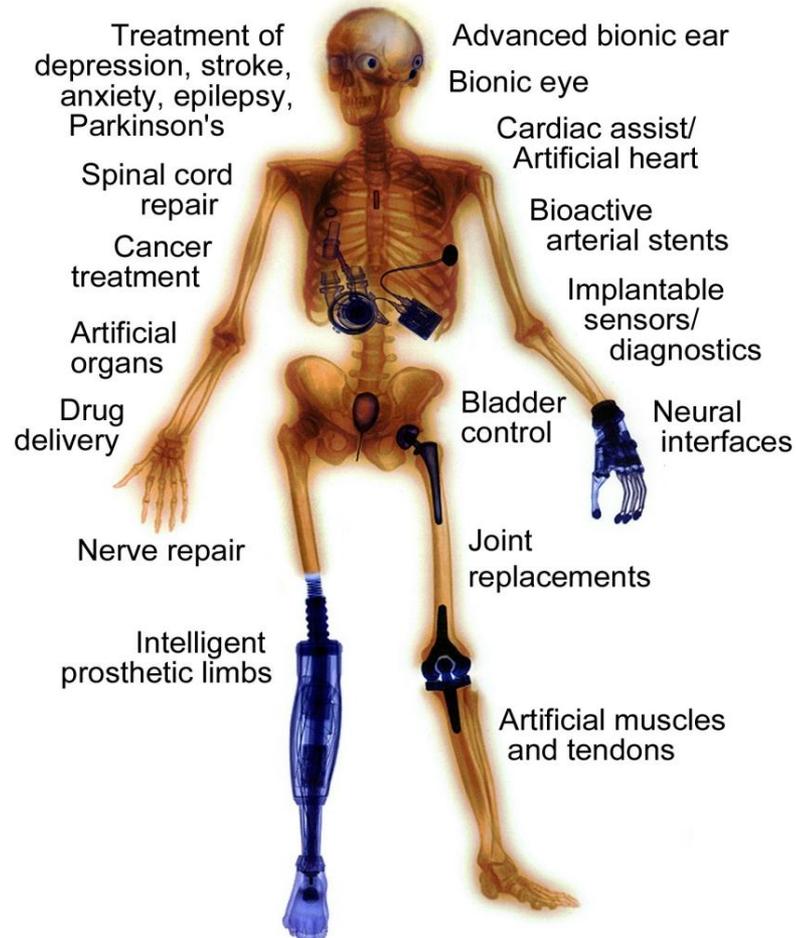
...innovation helping
children with disabilities

History of the cochlear implant



Medical bionics

The Bionic Human of the Future



Hear and Say

Teaching deaf children to listen and speak since **1992**

- **Hear and Say Children**
- **Hear and Say Research & Innovation**
- **Hear and Say WorldWide**



Hearing loss is the most common disability in new born babies



Today it is treatable!

Unlimited possibilities

Listening, talking and reading
the same as
children with normal hearing



Possibilities for Children TODAY

Deaf child in 1992

- Diagnosed late
- Poor comprehension
- Unintelligible speech
- Need signing
- Poor reading + education
- Limited career
- Poverty

Deaf child today

- Converse with other intelligent people
- Hear about great ideas
- Read + learn + grow
- Optimal education
- Multiple life pathways
- Lack of poverty - empowered

'Best Practice' for treatment

1. Newborn Hearing Screening

2. Modern hearing technology

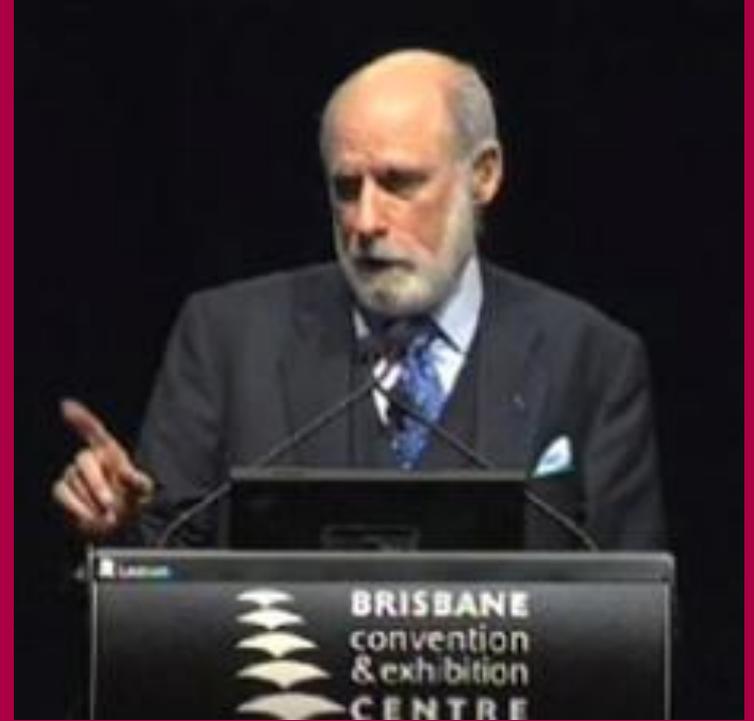
- digital hearing aids and cochlear implants

3. New brain-based education

- Auditory-Verbal Therapy



Bionic ear meets Internet



Prof Graeme Clark meets Dr Vinton Cerf



Making a global impact



Hear and Say
WorldWide

Training Hearing Professionals

In countries like ...

China

Samoa

Russia

Serbia

India

Thailand

Malaysia

Sri Lanka

Papua New Guinea

Australia



Mexico

United Arab Emirates

Germany

East Timor

Nigeria

Pacific Islands

World-class expertise to share



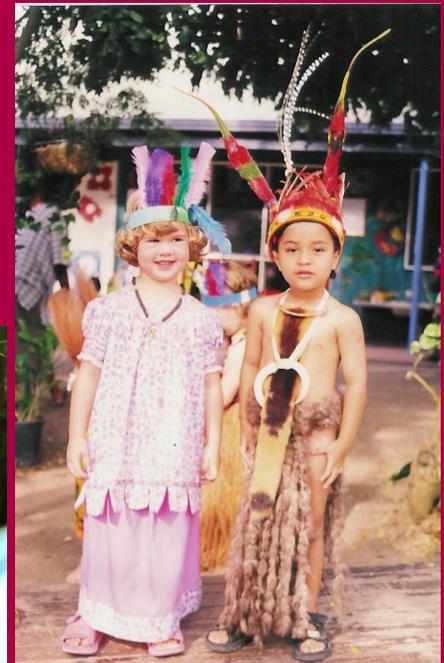
Meeting growing global demand

Listening and Spoken Language for Children with Hearing Loss

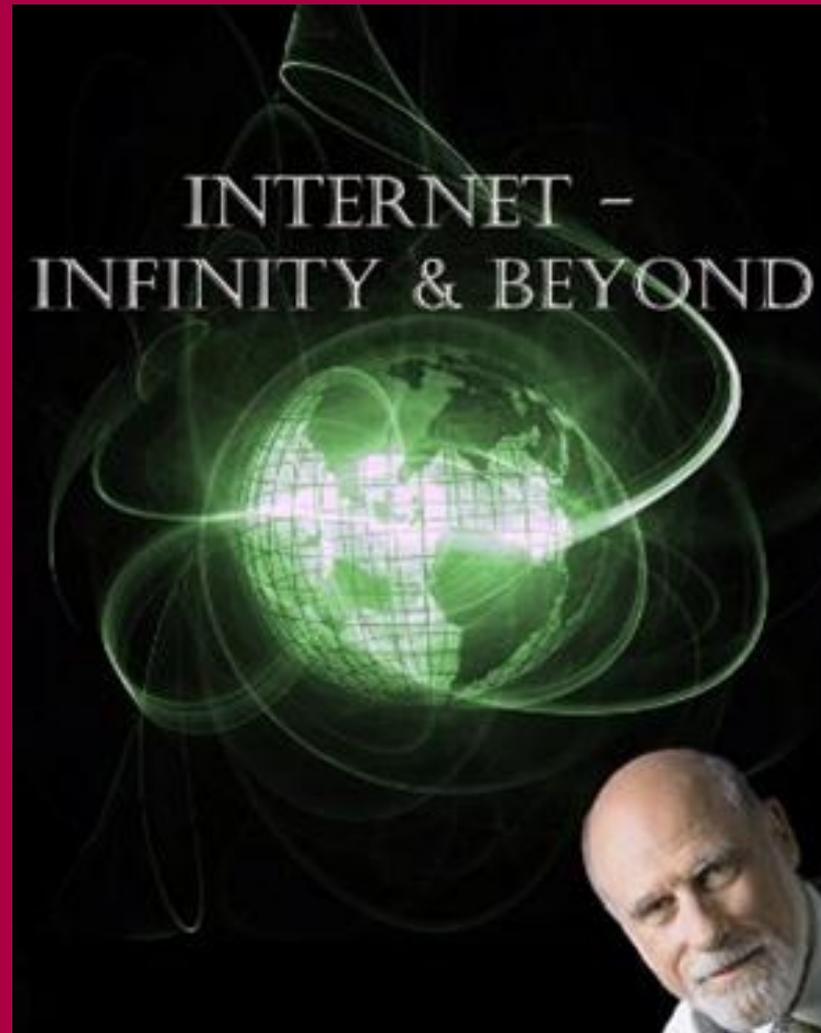


The challenges

- Significant impact of hearing loss
- Geographic distance
- Challenges of new technology
- Lack of education for professionals
- Isolation for children and families
- Outcome of poverty



Available to ALL via the internet



So what can we do

.....for the world's children?

- Newborn hearing screening
- Digital hearing aids
- Auditory-Verbal Therapy
- Train towards using cochlear implants





Changing children's lives

WorldWide

by **teaching** them to:

hear and speak



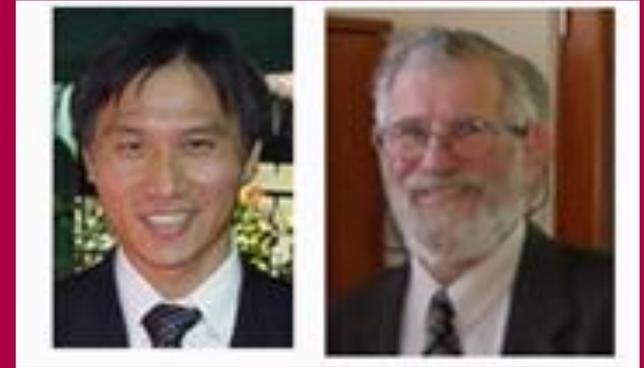
Hear and Say
WorldWide

Hear and Say WorldWide projects



Sharing our 'secrets to success'

- Partnerships
- Technology



**Prof Nian-Shing Chen &
Mr Laurence Quinlivan**

The screenshot shows an e-Learning platform interface. At the top, it says "Hi, hastie_sde! You are now in [Classroom]." and "School:5 P | Course:1 P | Logout". Below this are navigation tabs: "Learning Center", "Assessment Center", "Information Center", "Personal Area", and "Public zone". A dropdown menu is set to "Intermediate". The main content area displays the URL www.hearandsayworldwide.com and a "Learning Path" sidebar. The sidebar lists various topics with "Download" links: Welcome, Introduction to Audio, Introduction to Cochlear Implants, Current Auditory Verbal Skills, The Hear and Say Model, Learning to Listen, Paediatric Hearing Assessment, Cochlear Implant Candidates, Hearing Aids, and Language Development. The main content area contains the text: "Global Professional Training Program of The Hear and Say Centre Brisbane, Australia".



How Hear and Say uses technology

- **Diagnosis**
 - Teleaudiology
 - ✓ Newborn Hearing Screening
 - ✓ Audiograms
 - ✓ Teleaudiology
- **Treatment**
 - Telemedicine
 - Telemapping
- **Professional work and training**
 - Professional development in-house
 - Management and meeting tool
 - International training



Changing children's lives



Listening and speaking - birth right of every child

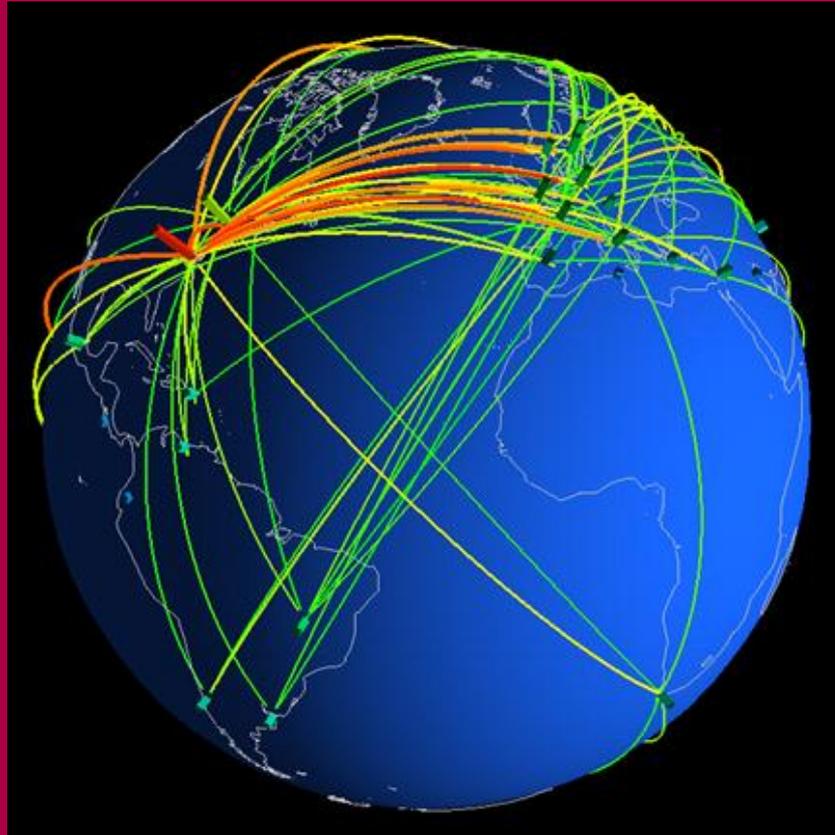


A pathway to peace



...via the Internet

Embrace the power of technology



to help children with disabilities

THANK YOU!

Contact Dimity

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Hear and Say
WorldWide