

Penrhyn

Rakahanga

Pukapuka

Manihiki

Nassau

# Network Challenges in Education

Suvarrow

Ministry of Education

Cook Islands

By

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Palmerston

Aitutaki

Manuae

Takutea

Mitiaro

Aru

Mauke

Rarotonga

Mangaia



# Network Challenges in Education

## Learning for Life

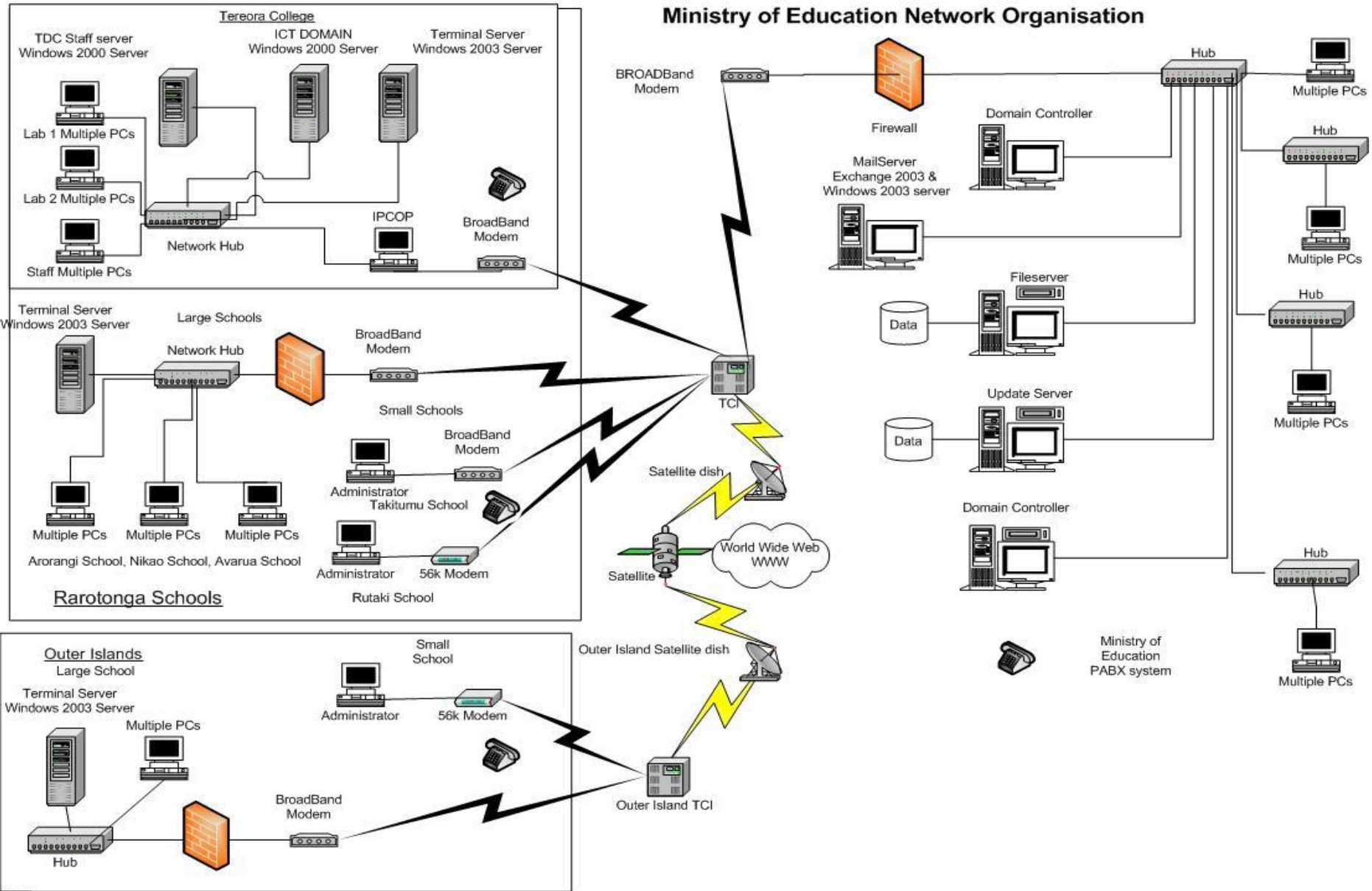
Cook Islands Education Master Plan  
2008–2023

***“All people in the Cook Islands will have equal access to quality learning opportunities across the full spectrum of human endeavour from birth.”***

Website: [www.education.gov.ck](http://www.education.gov.ck)



# Education network challenges



# Network Challenges in Education

## Brief

- Unmanaged and managed situations
- Past, today & future
- Summary



# Network Challenges in Education

## Unmanaged situations

- Geographic locations
- Economics
- Government
- Natural Environment

# Network Challenges in Education

## Managed situations

- Business sector
- Technology
- Capacity training
- Personnel
- Infrastructure
- Financial

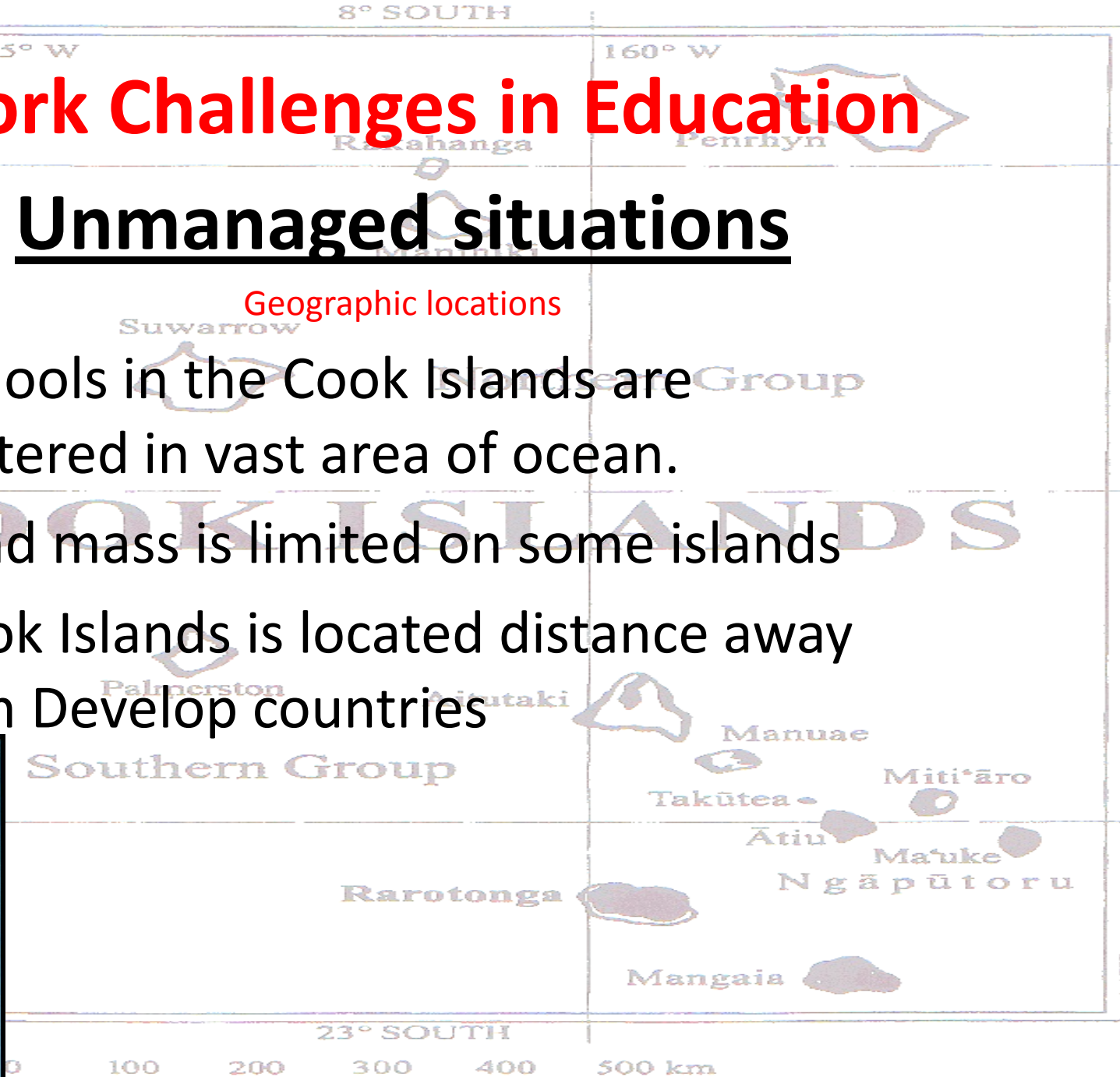
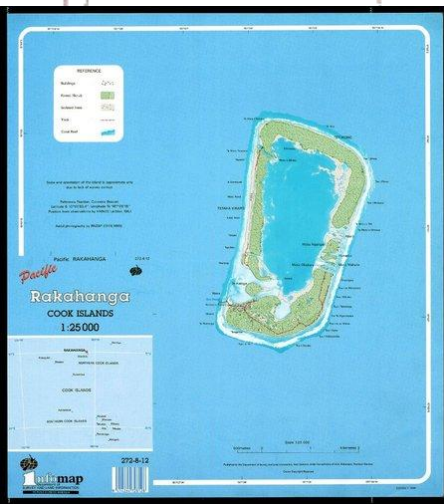


# Network Challenges in Education

## Unmanaged situations

Geographic locations

- Schools in the Cook Islands are scattered in vast area of ocean.
- Land mass is limited on some islands
- Cook Islands is located distance away from Developed countries



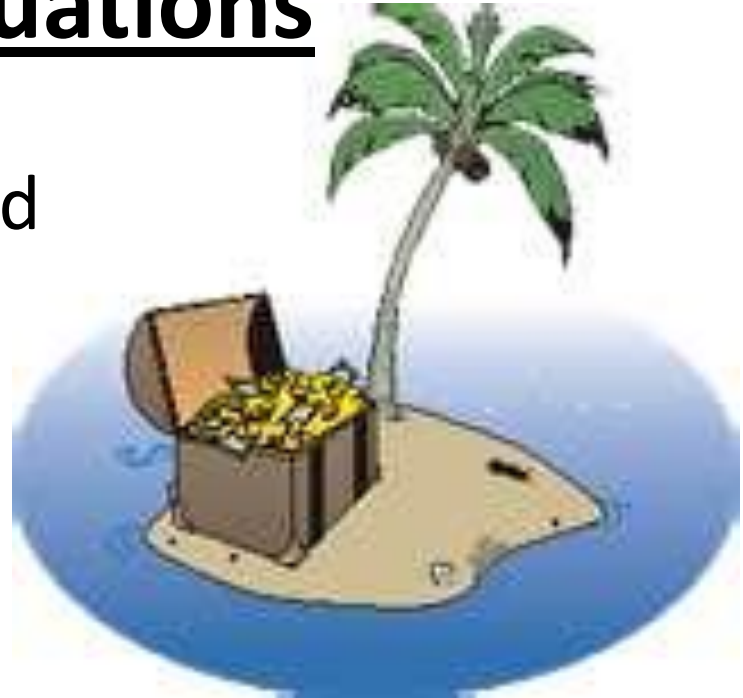


# Network Challenges in Education

## Unmanaged situations

- Economics

- Country development and commitment
- Global change





# Network Challenges in Education

## Unmanaged situations

- Government

- Political & Policy's changes

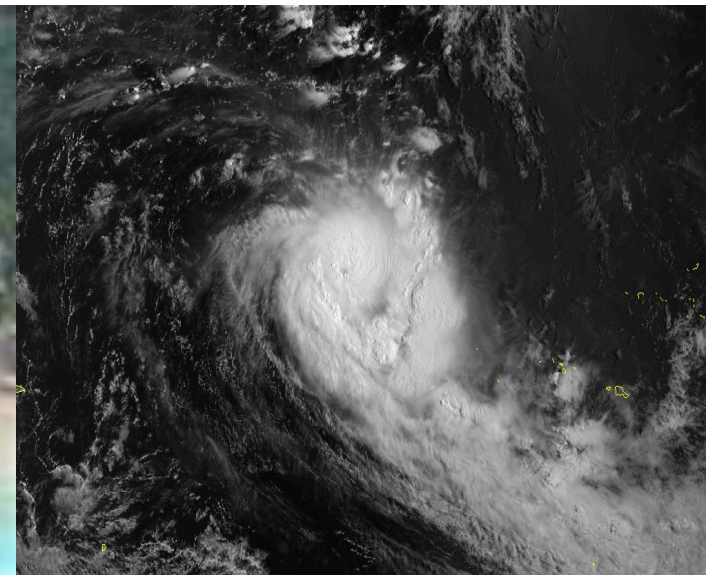


# Network Challenges in Education

## Unmanaged situations

- Natural Environment

- Natural Disasters
- ie Hurricane, Wave action, sea raise



# Network Challenges in Education

## Managed situations

- Business sector
- Technology
- Capacity training
- Personnel
- Infrastructure
- Financial



# Network Challenges in Education

## Managed situations

- Business sector

- Business sectors in the Cook Islands are able to supply ICT.
- Competition between business sectors for clients and hence better selection



# Network Challenges in Education

## Managed situations

### •Technology

- Technology is changing all the time
- Improvement in technology
- Wider range of selection
- Reliability
- Use of Media to transfer information's
  - i.e. Via television, radio, voice, media storage, internet etc



# Network Challenges in Education

## Managed situations

- Capacity training

- Difficulty in keeping up to date knowledge with technology change i.e 90% use Microsoft products
- Local and region training provision i.e 1 on 1 training, workshop attendance etc



# Network Challenges in Education

## Managed situations

- Personnel

- Population migration
- Skill personnel lost and retrain
  - I.e. Training of local personnel





# Network Challenges in Education

## Managed situations

### •Infrastructure

- Power sources
  - i.e generators, solar or wind
- Use of Satellite technology to bridge the communications needs
- Radio stations



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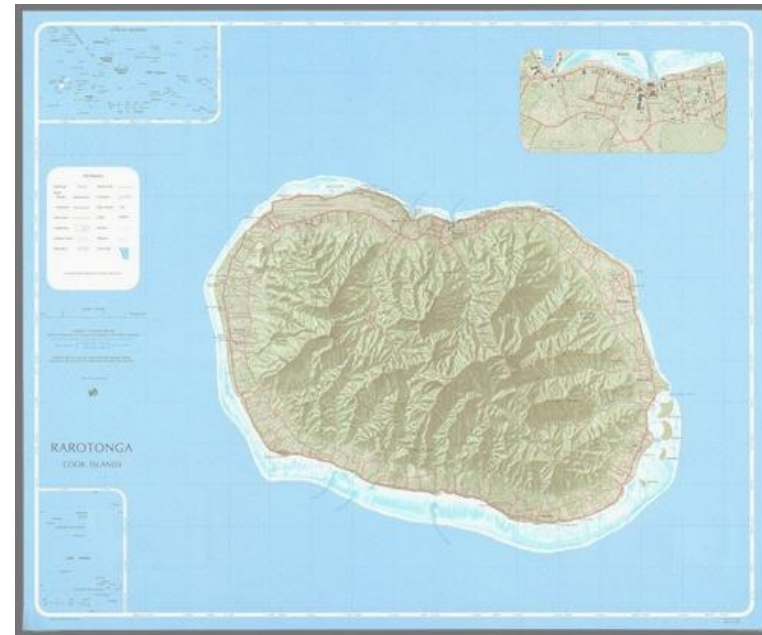
[www.radio.co.ck](http://www.radio.co.ck)

# Network Challenges in Education

## Managed situations

### •Financial

- Prices are changing therefore gives better selection
- Budget limitations
- i.e \$3000 3 quotes
- \$30,000 tender



# Network Challenges in Education

## •Past

- Nil connectivity i.e nil telephone
- Time limitations of information transfer i.e via shipping
- Unreliability
- Environment influence i.e radio HF

# Network Challenges in Education

## •Today

- Improve connectivity
- Reduce time of information transfer
- Reliability is improving
- Environment influence is minimal

# Network Challenges in Education

## •Future

- Better connectivity
- Instant information transfer
- Reliability is not an issue
- Environment influence is not an issue

# Network Challenges in Education

## Summary

- Deliverance of the Vision

***“All people in the Cook Islands will have equal access to quality learning opportunities across the full spectrum of human endeavour from birth.”***

- Is maximised



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Sea Scale: 0 100 200 300 400 500 km