# New Zealand

## Population

- 4.1 million People
  - Maori 14%
  - Pacific People 6%
  - Asian 6%
- 39.9 million sheep

# New Zealand

Paul Cressey

- The New Zealand Health System
- New Zealand Health Information
- eMedicine NZ Context
- Safe Medication Management Programme

# The New Zealand Health System

## NZ Health

- 21% Govt Budget
- $12 billion
- 9.45% GDP
- Government Funded 80%
- Primary Care 40%
- Secondary Care 60%

# The New Zealand Health System

## National Health Strategies

- NZ Public Health and Disability Act 2000
- NZ Health Strategy 2000
- Primary Care Strategy 2001
- Health Information Strategy for NZ 2005
- Accident Compensation Commission

# A New Zealand District Health Board

Counties Manukau District Health Board

- Population 410,000
- Budget $1 billion
- Hospitals and Primary Care
- Primary Options Acute Care
- Chronic Care Management
- Lets Beat Diabetes

# New Zealand Health Information

## Health Information Strategy Action Committee

- Ministerial Committee
- Governance, Oversight, Leadership
- Sector Leaders
- Infrastructure Subcommittee
- Health Information Standards Organisation
- National Collections Subcommittee

# New Zealand Health Information

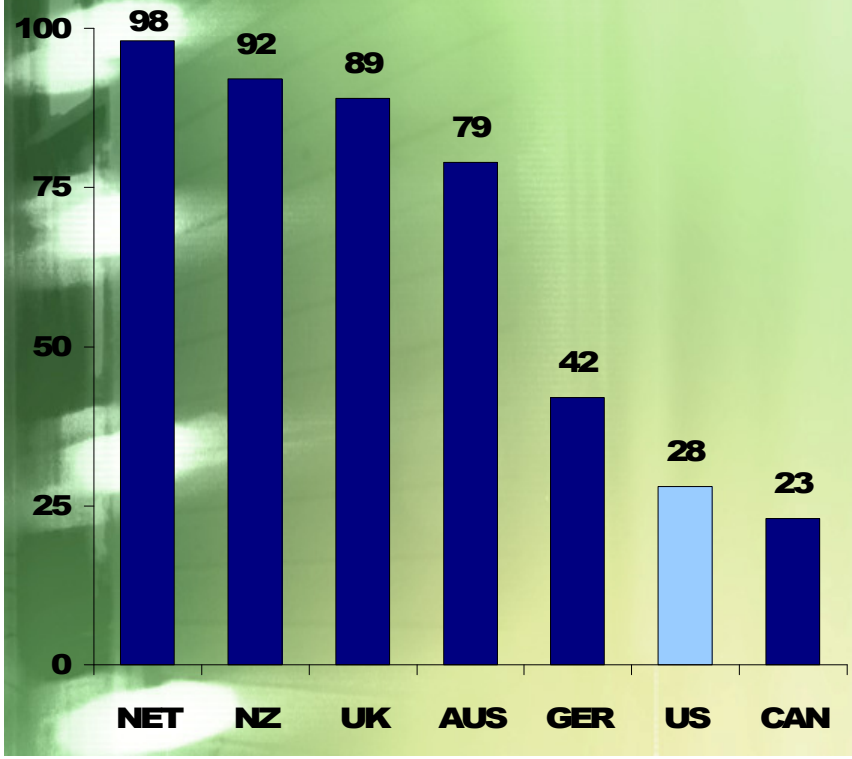
## Health Information Strategy for NZ

- National Networking
- Anchoring Framework
- Primary Care Information
- Chronic Care Management
- Outpatient Information
- National System Access
- National Health Index
- Health Provider Index
- e Laboratory
- e Pharmacy
- e Discharges
- e Referrals

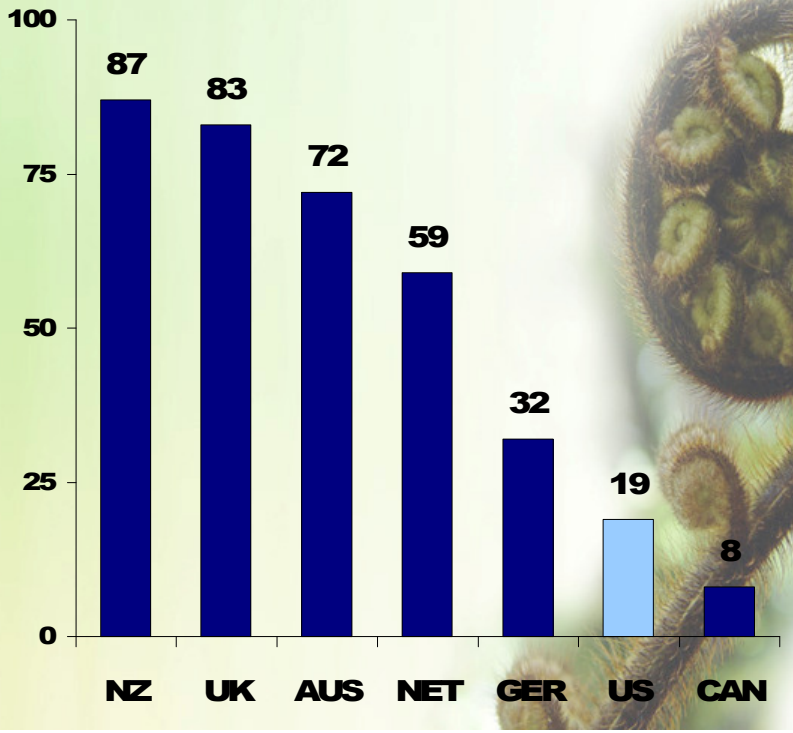
# New Zealand Health Information

## EMRs in New Zealand

**Percent uptake EMR**

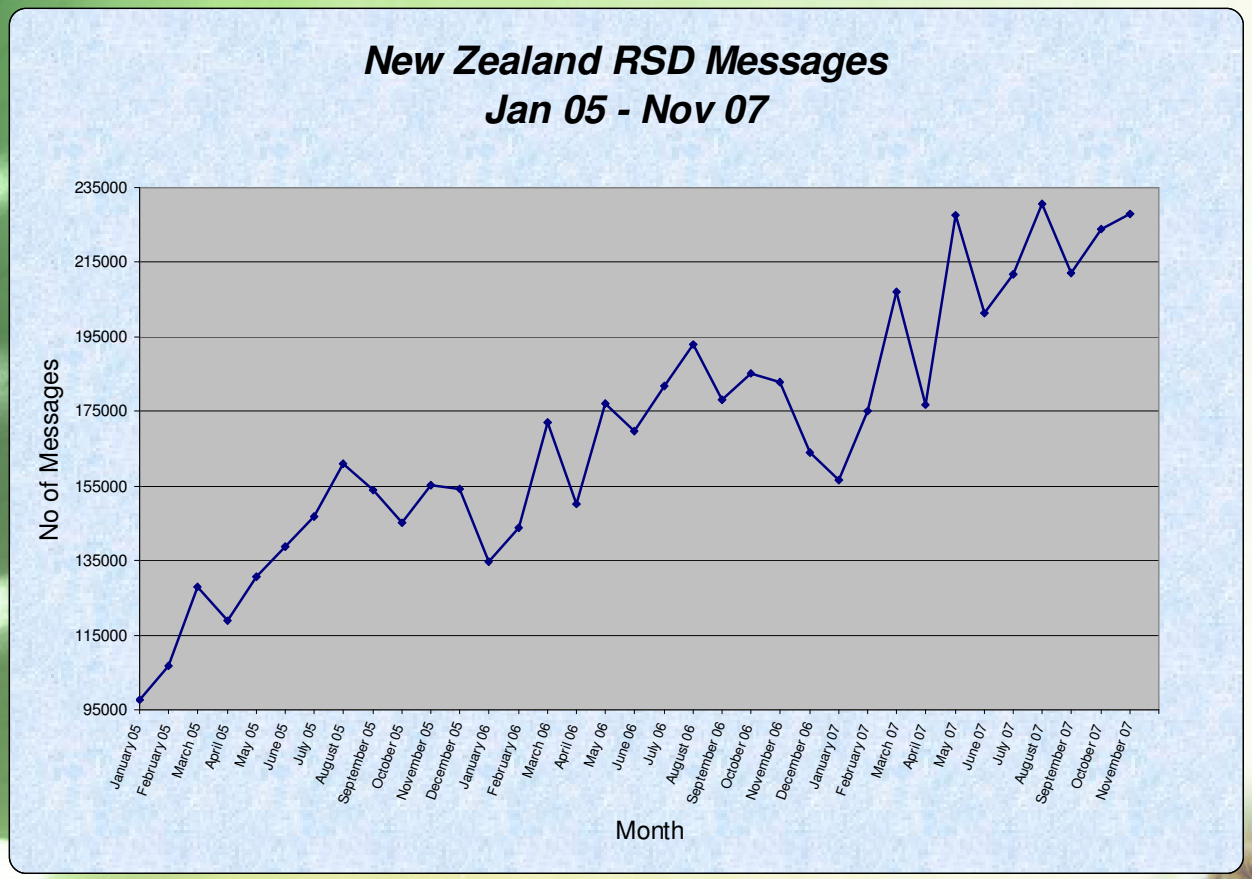



**Percent 7 (14) functions**



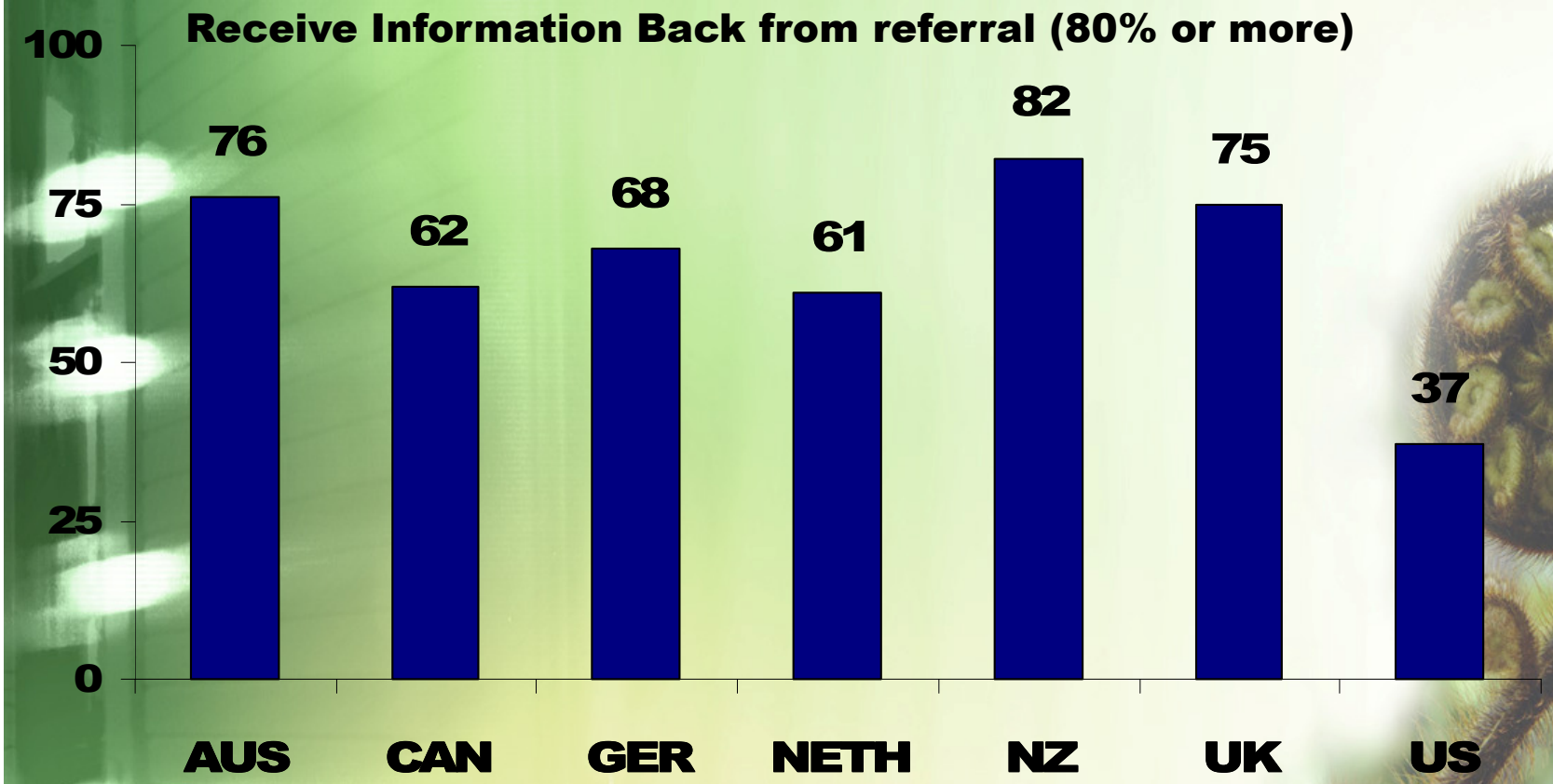
# New Zealand Health Information

## Referrals and Discharges in NZ



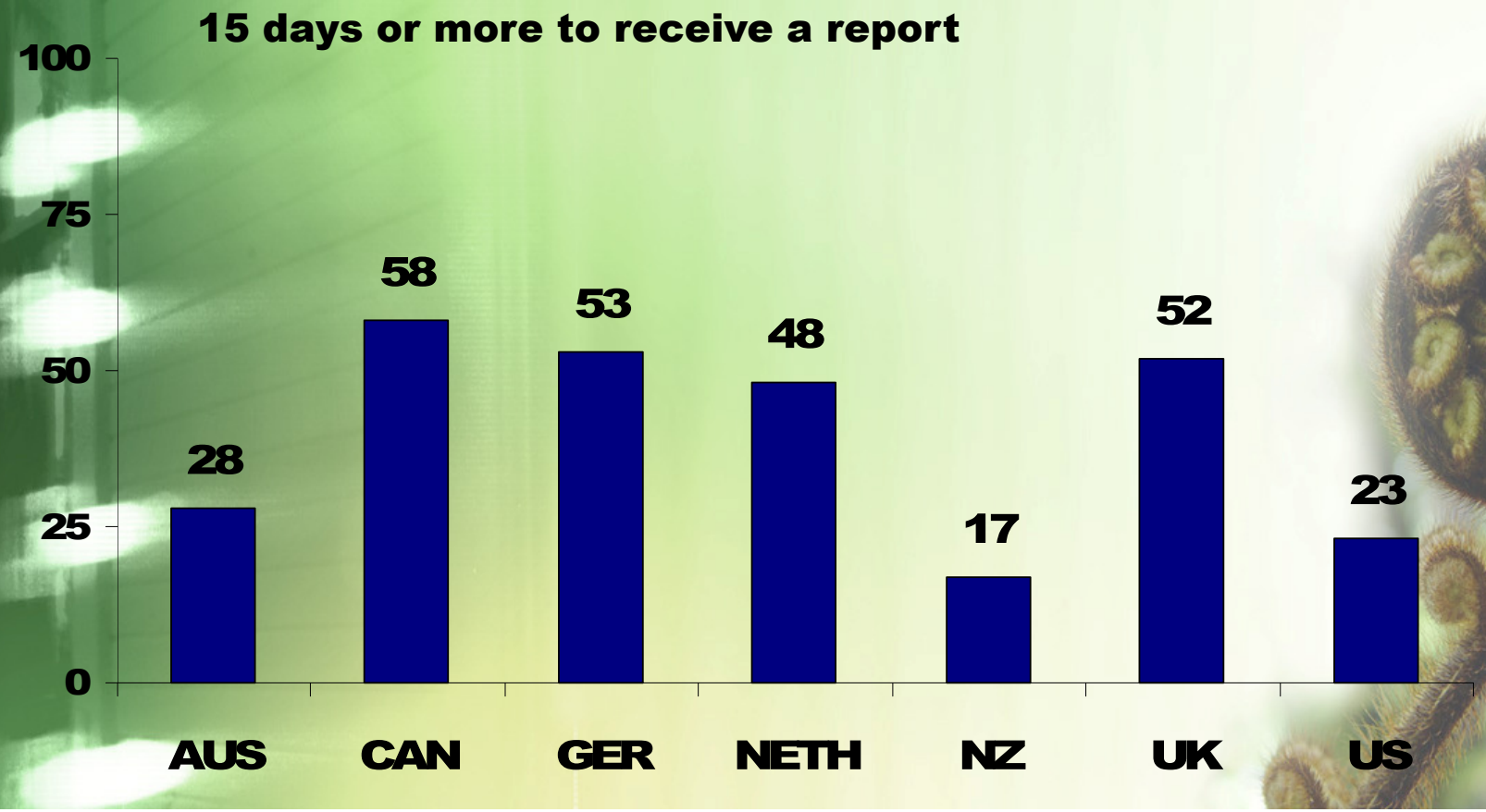
# New Zealand Health Information

## Referrals



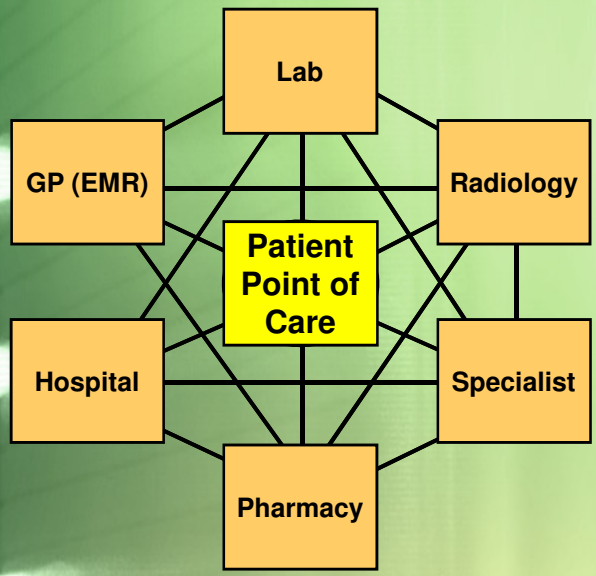
# New Zealand Health Information

## Hospital Discharges

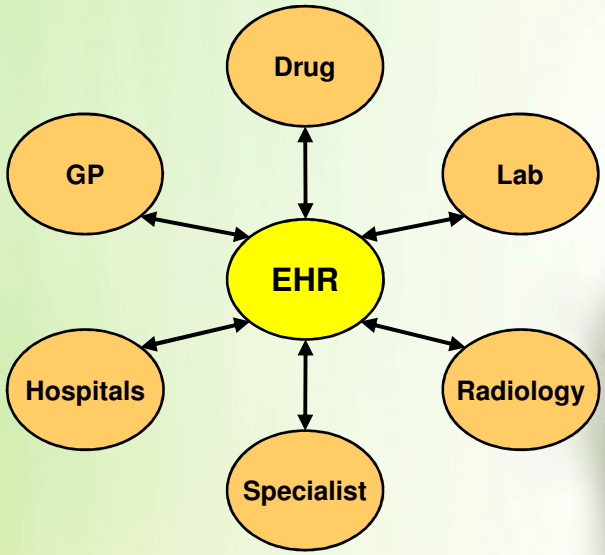


# New Zealand Health Information

## New Zealand Approach

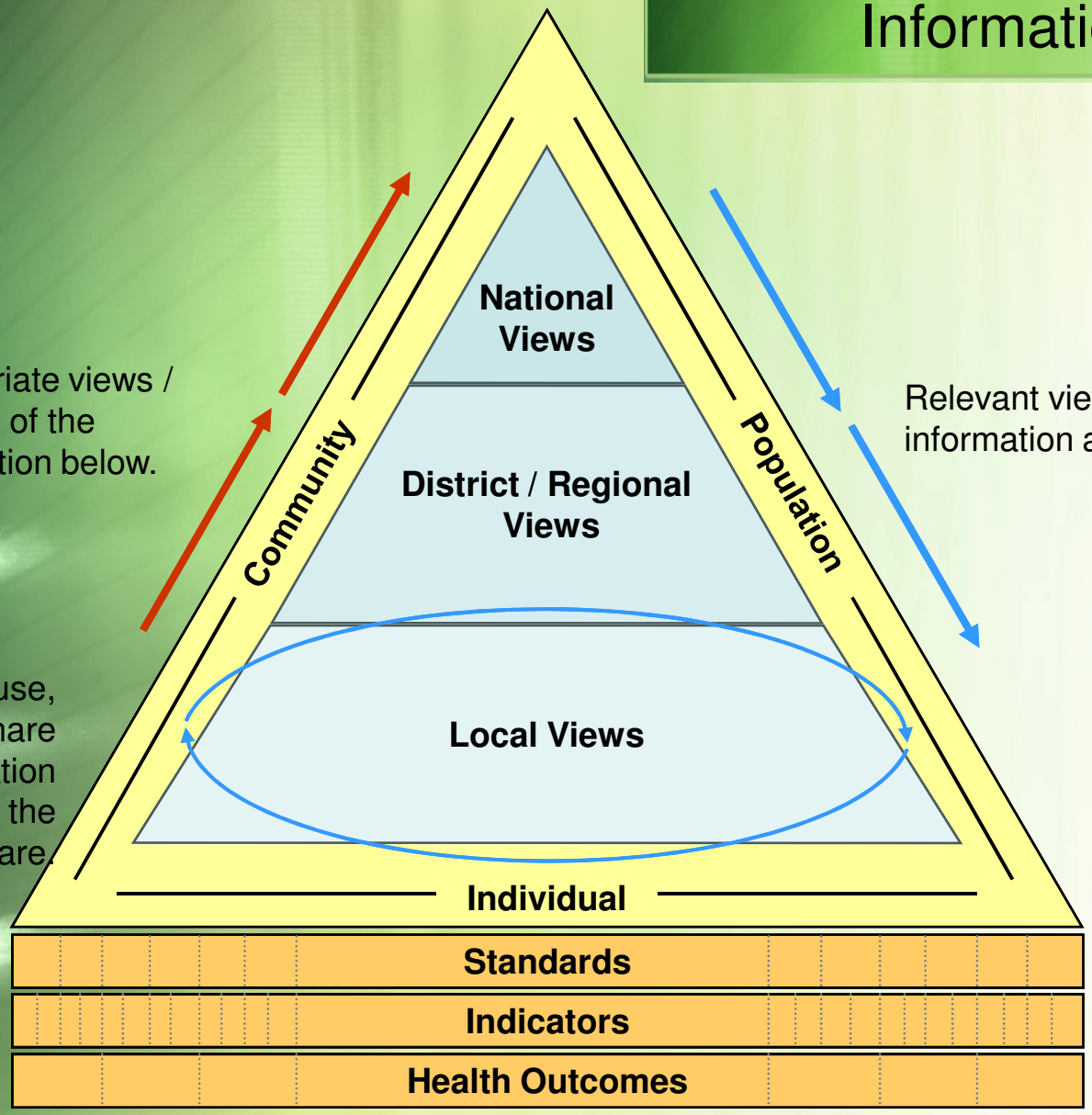



**Point-to-point (push)**




**Centralised (push and pull)**

# Information Flows



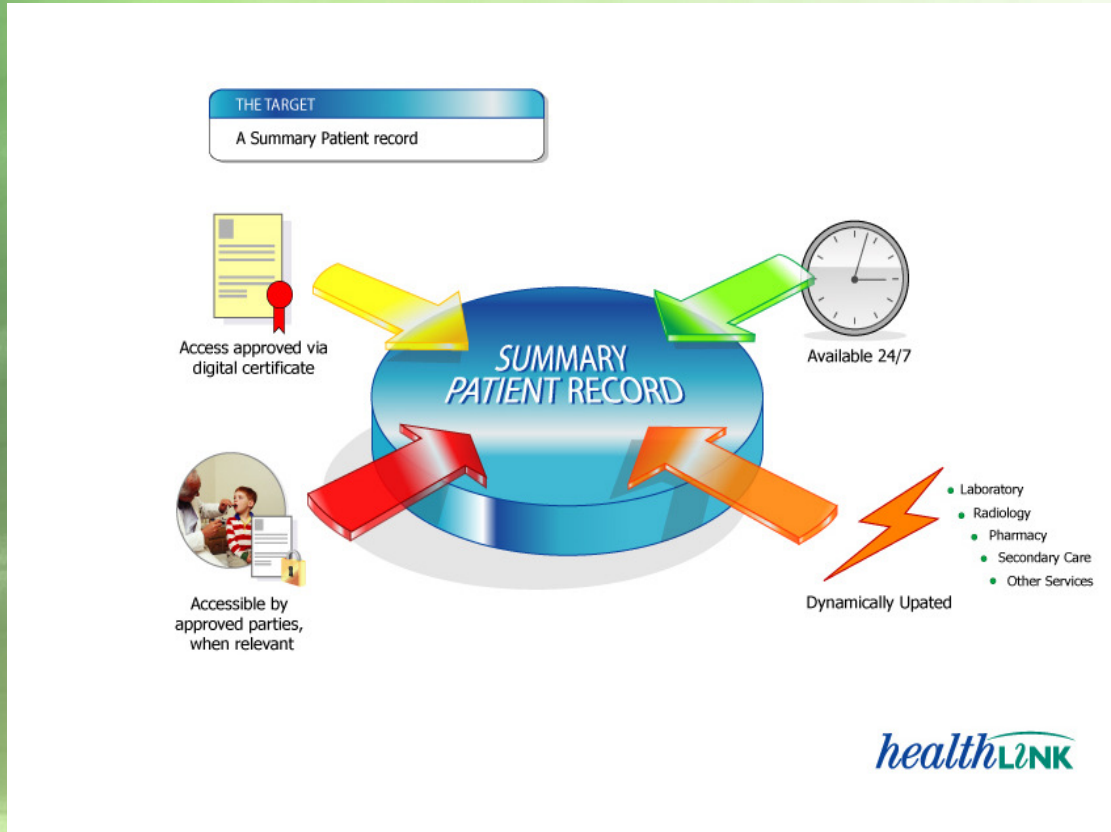

Appropriate views / subsets of the information below.

Relevant views of information above.

Capture, use, and share information locally at the point of care.

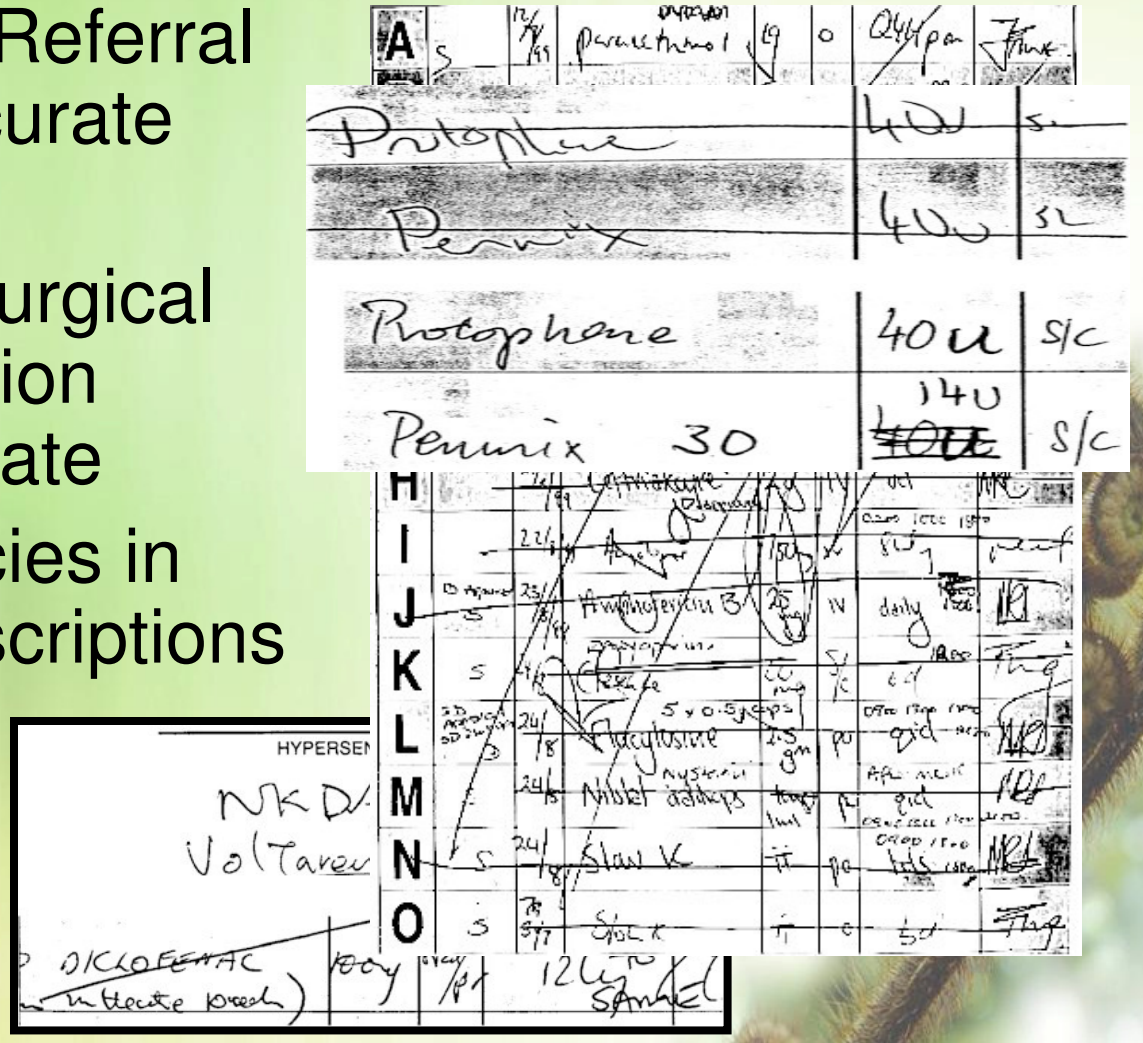
# New Zealand Health Information

## Shared Health Event Summary “Patient Vitals”



# eMedicine NZ Context

- Only 27% GP Referral letters had accurate medicines
- Only 52% of Surgical wards medication histories accurate
- 25% inaccuracies in discharge prescriptions



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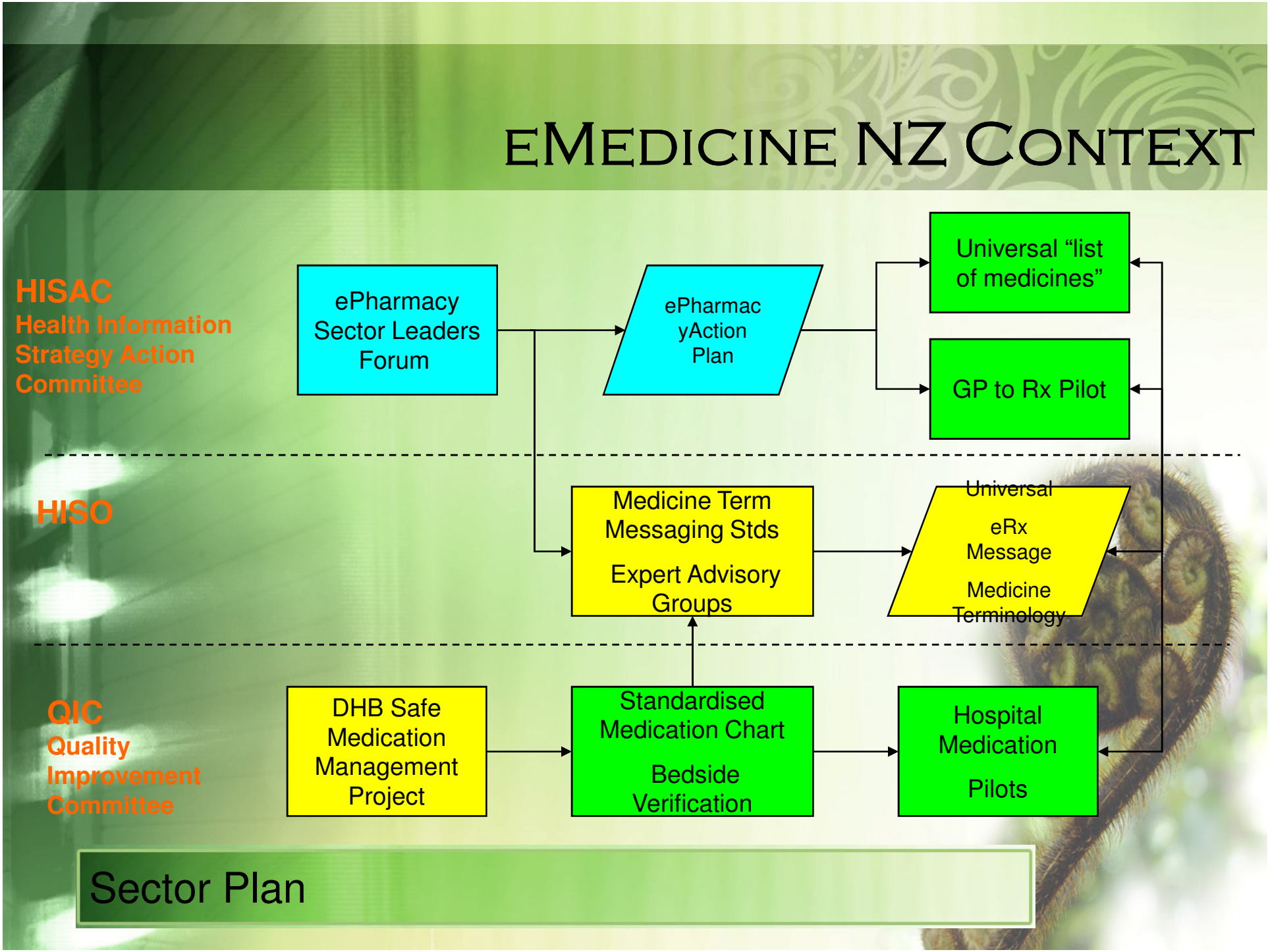
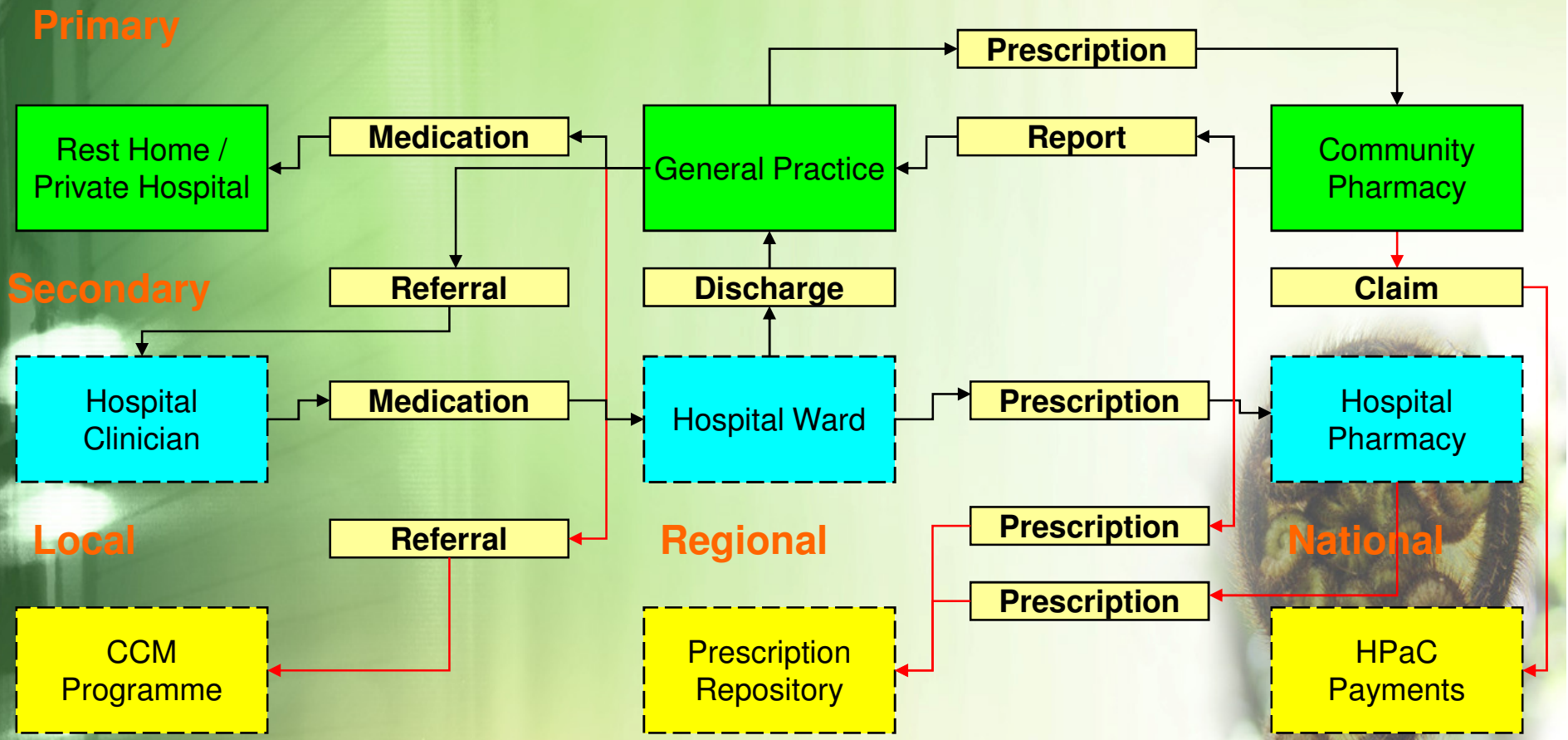


# eMedicine NZ Context



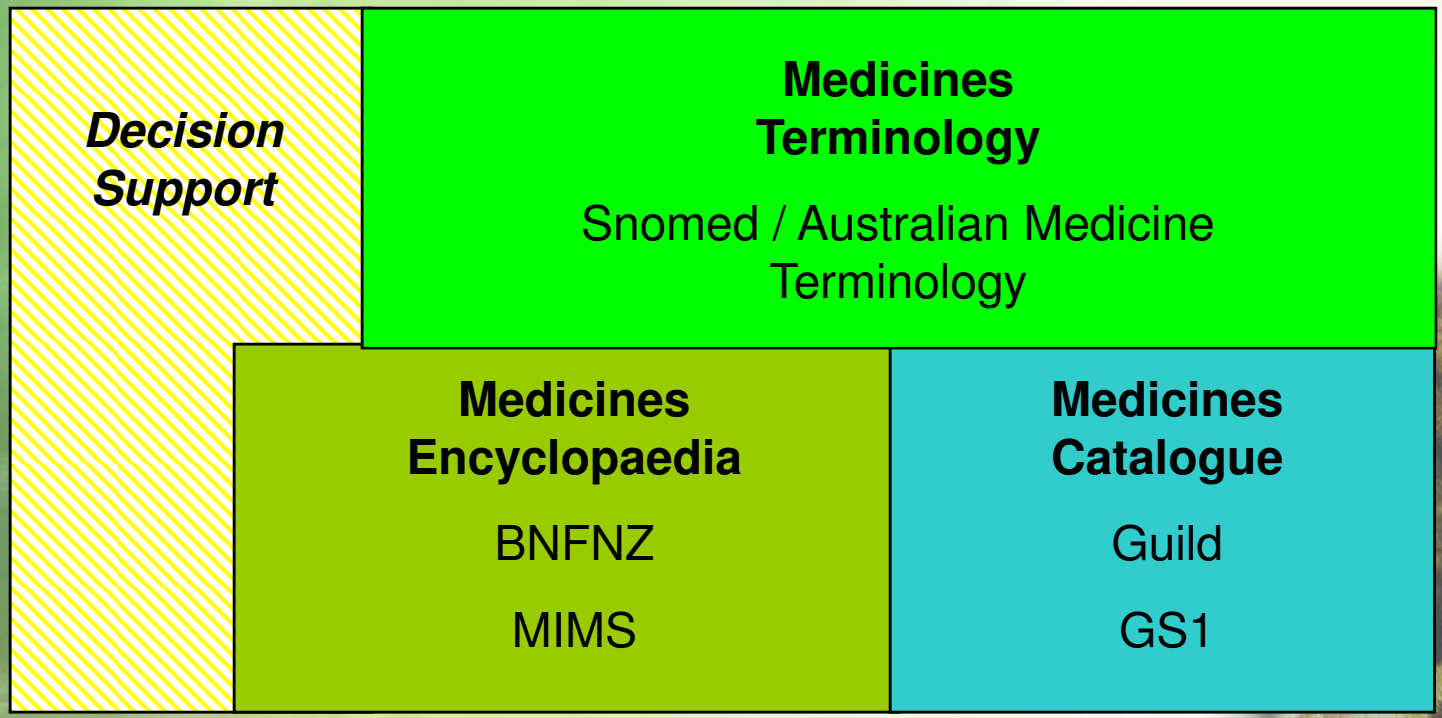

Universal Medicine Message

# eMedicine NZ Context

| | New Zealand | Australia | UK |
|---|---|---|---|
| **Prescribing** | MIMS<br><br>BNF<br>PHARMAC schedule<br>IPA & PHO CME Guides<br>Hospital Lists | Australian Medicine Terminology (AMT)<br><br>(Snomed CT) | NHS Dictionary of Medicines & Devices (dm+d)<br><br>(Snowmed CT) |
| **Dispensing**<br><br>**Distribution** | Guild Catalogue<br><br>Pharmac Schedule<br><br>(Pharmacodes) | Australian Catalogue of Medicines (ACOM)<br><br>(GS1 Net) | Supply Chain Pharmaceutical Products<br><br>(GS1) |

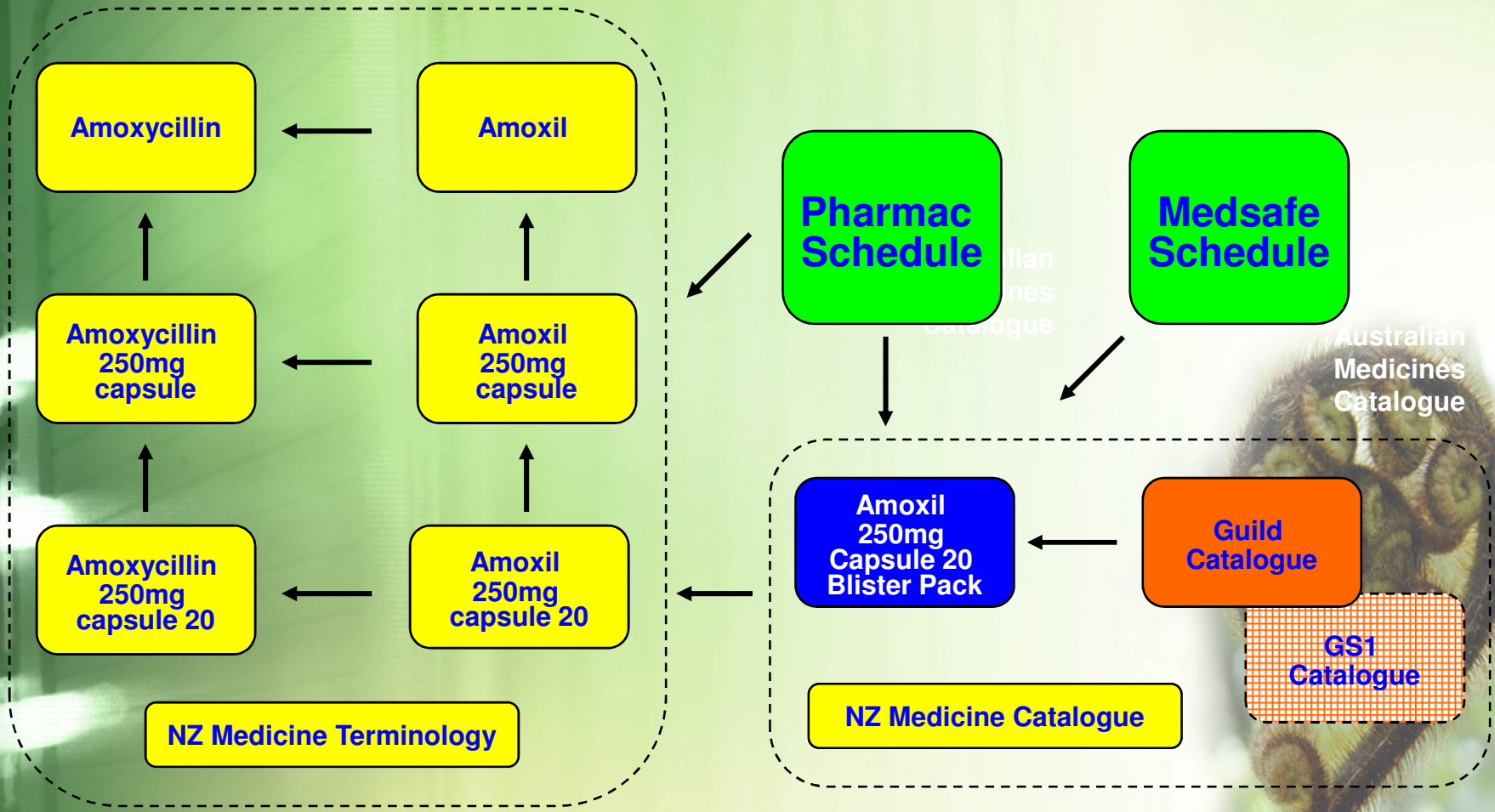
Current Lists and Codes

# eMedicine NZ Context




National Medicines Reference System

# eMedicine NZ Context




Universal Medicines List

# Safe Medication Management

## Challenge

- 5,000 Patient Medication Errors a year
- 3,500 Patients Temporaily Disabled
- 400 Patients Permanently Disabled
- 150 Patients Die

# Safe Medication Management

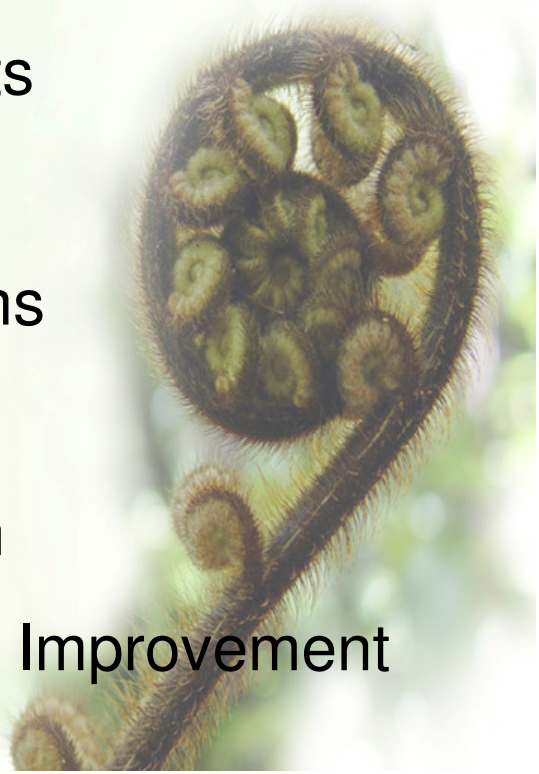
## History

- GS1 NZ
- Ministry of Health Official
- Minister of Health
- "Barcoding Project"
- Quality Improvement Committee
- Lead District Health Board

# Safe Medication Management

## Quality Improvement Committee Projects

- Optimising Patients Journey
- Management Healthcare Incidents
- Infection Prevention and Control
- National Mortality Review Systems
- Safe Medication Management
- Improving Customer Participation
- Education and Training in Quality Improvement



# Safe Medication Management

## Objectives

- Reduce the number of medication errors in NZ
- Reduce the number of patients who are permanently disabled or die as a result of medication errors
- Reduce the costs associated with remedial treatment

# Safe Medication Management

## Eight Hospital Projects

- Standardised Medication Chart
- Medicine Reconciliation
- Standardised Hospital Medicine Systems
- eMedication Record, ePrescribing
- Link Medicine Management Systems
- Unit Dose Packaging
- Introduction Bedside Verification
- Training

# Safe Medication Management

## Four Sector Projects

- Universal eMedicines List
- Universal eMedicine Messaging
- ePrescribing GP to Rx
- Sector Collaboration