



Health



Lead Site for PCEHR in Greater Western Sydney



Brave New World of eHealth

- In this connected age, health sector needs to get away from relying on phone calls, memory and paper system's to communicate
- Future of health is about connecting health information
- Vital information about an individual's health is located in different locations:
 - several medical centres or GPs
 - a number of hospitals
 - specialist clinicians
 - community and outreach health services
 - emergency departments
 - local health districts
- How can these hubs be connected into a full health picture for an individual?
- Technology is the key



Getting connected

Annual health visits

Picture of an average Australian's health visits

TOTAL: approximately 22 interactions with the health system.

- 4 visits to a GP
- 12 pharmacy prescriptions
- 3 visits to a medical specialist
- 2 visits to an allied health professional (e.g. a physiotherapist)
- 1 visit to the dentist

If this is the average, what about chronic disease patients

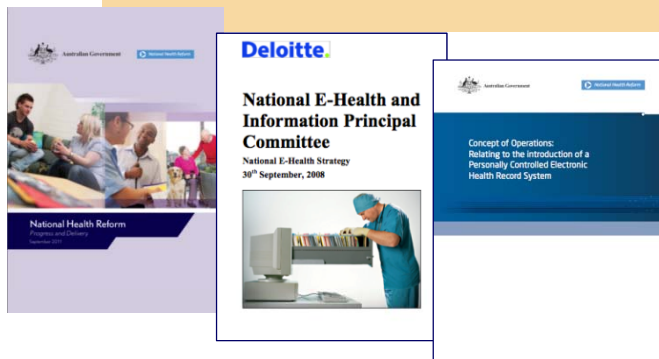


Australia's health system

Australia can't afford to continue the health system in its current form

Solution

- Empowering patients to take control of their own health
- Providing clinicians with the best information at the point of care
- Keeping people out of hospital

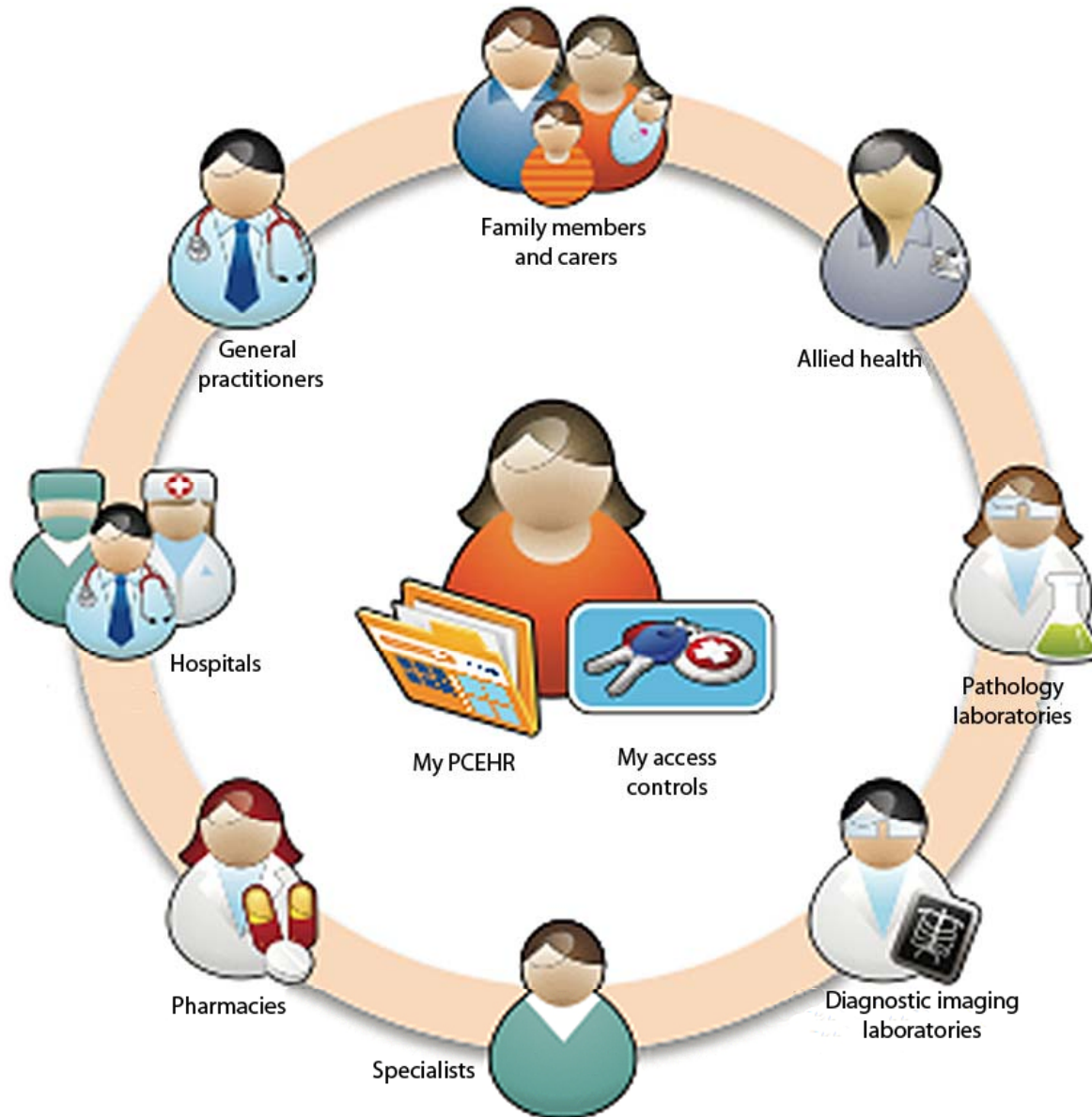


National Health Reform

Reforming Australian health care

- Developing a national electronic health record system is a priority under the National Health Reform agenda of the Australian Government
- In the 2010/2011 Federal budget, almost \$467 million (funded by the Department of Health and Ageing) has been allocated for developing a national electronic health record system
- National implementation overseen by National eHealth Transition Authority (NEHTA)
- Implementation at the local and state levels by state and territory health authorities

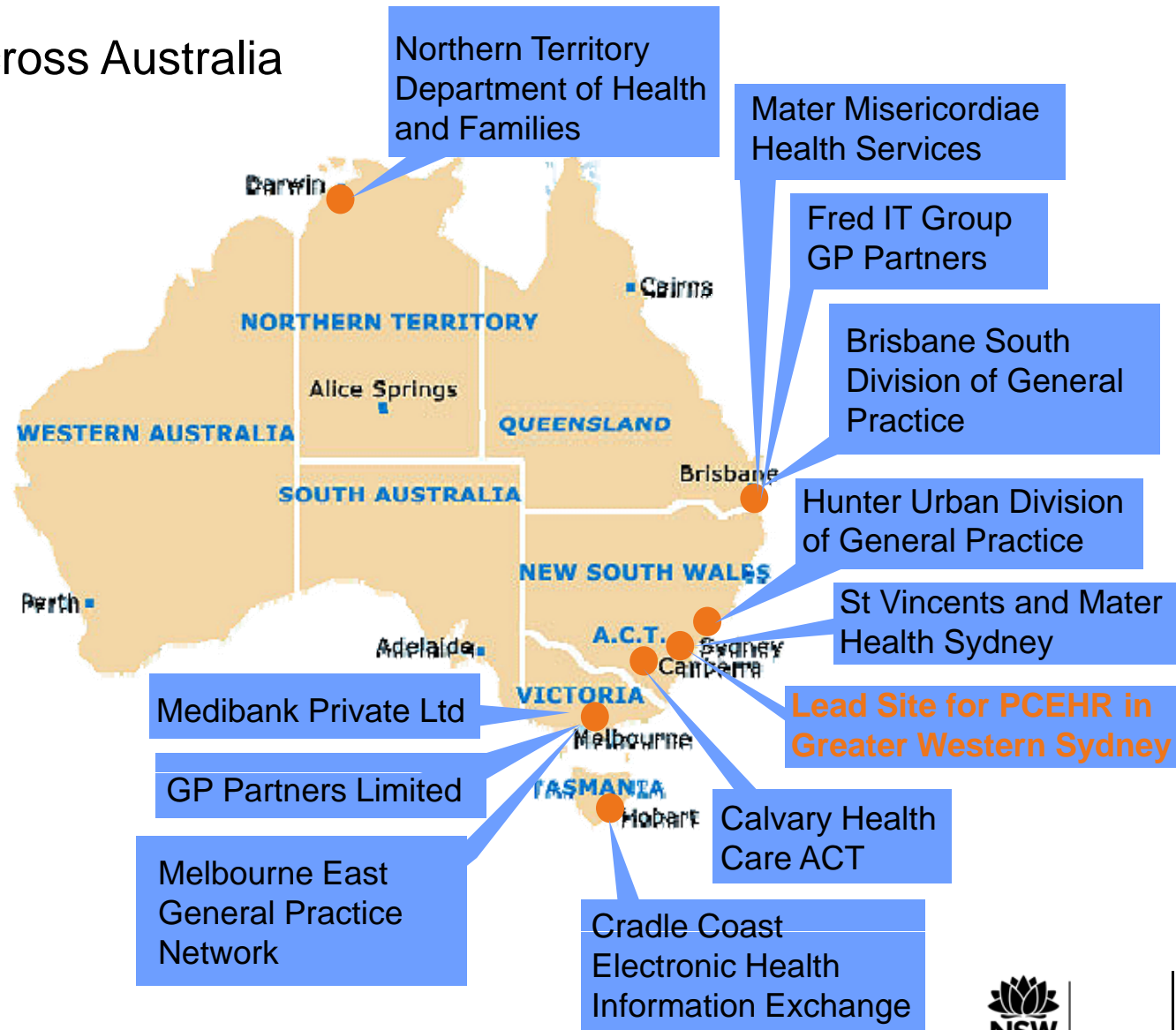
What is the PCEHR?



- A Personally Controlled Electronic Health Record (PCEHR) is a secure, electronic record of your medical history
- It is stored and shared in a network of connected systems
- It will bring key health information from a number of different systems together and present it in a single view

The national picture

12 pilot sites across Australia



Why Greater Western Sydney

- Greater Western Sydney is one of the fastest growing population centres in Australia
- Almost 1.2 million people and rising rapidly
- Region will accommodate 60% of Sydney's growth and 25% of the total Australian growth



The health of Greater Western Sydney

High demand on health services in Greater Western Sydney

- High levels of smoking, obesity and stress
- Higher incidence of cardiac disease, stroke, cancer and respiratory illnesses
- More than 18,000 births every year

Target patient groups in GWS



- **Aged patients and those with chronic disease:**
 - account for 36% of acute inpatient separations
 - account for 48% of total acute inpatient bed days
- Very high-risk patients are those with multiple co-morbidities – geriatrics, cardiology, respiratory, diabetes, renal and neurology
- High need for services and multiple healthcare providers across hospital, private clinicians, and community health

Target patient groups in GWS

Carers and children:

- Greater Western Sydney has highest number of births in NSW
- Based on postcodes, 3 of the top 5 suburbs in NSW for births are all in GWS:
 - Auburn at number 1
 - Blacktown at number 2
 - Merrylands at number 4
- Children's Hospital at Westmead recognised as leading children's hospital in NSW
 - draws patients from all health districts



Target patient groups in GWS

Aboriginal and Torres Strait Islander patients:

- Greater Western Sydney has more than one-fifth of the total number of ATSI people in NSW (> 23,000)
- Greatest concentration in GWS are in:
 - Blacktown
 - Penrith
- Many Aboriginal and Torres Strait Islander children are transferred to The Children's Hospital, Westmead for specialist medical care



Target patient groups in GWS



Patients from culturally and linguistically diverse (CALD) background:

- One-third of GWS population was born overseas
- More than half the world's nations represented
- 70 different languages spoken

What the program will deliver

We will deliver:

- infrastructure
- implementation and resource materials

The components are:

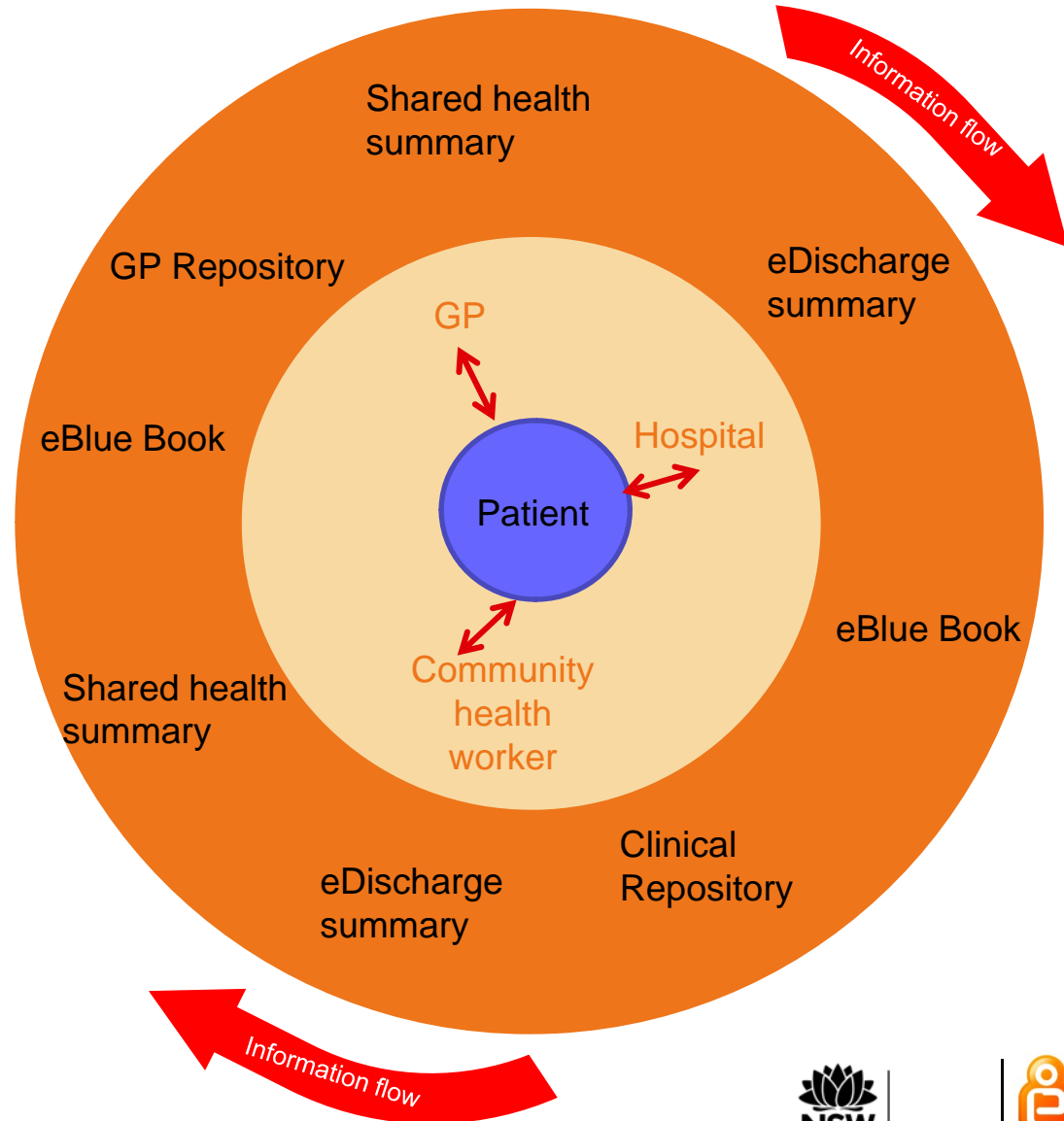
- **eDischarge summary** – electronic discharges issued by hospital and community health facilities to GPs and private clinicians
- **eBlue Book** – electronic Blue Book issued by hospital and community health facilities on birth of babies for shared health information between parent, GPs, hospitals and community health facilities
- **Shared health summary** – electronic patient summaries (including discharge summary), created by GPs will be able to be accessed by other clinicians through the **GP Repository**
- **Clinical Repository** – a resource and retrievable electronic archive for hospitals across Greater Western Sydney to store discharge summaries, event summaries, event notification, shared health summaries and medical imaging studies. There is also the **Enterprise Imaging Repository** – an electronic archive of images, scans, X-rays in the NSW Health system (not part of the project but complementary)

The program and benefits

Benefits for patients

All patient groups:

- can opt in to the Lead Site for PCEHR in GWS system through the Shared Health Summary, GP Repository or eBlue Book
- can nominate who can view their information – GP, hospital, community health workers, specialists



The program and benefits

Benefits for patients

Parents/carers and babies:

- This is the start of a long-term electronic record for child
- have easy access – don't have to remember to carry the book
- can check information no matter where I am



The program and benefits



Benefits for patients

Aged and patients with chronic disease:

- Health providers have access to health information which will keep me out of hospital
- My GP will know what has happened to me in hospital
- If I'm admitted to hospital, they can access my complete health history straightaway

The program and benefits

Benefits for patients

Aboriginal patients:

- My doctor knows me better so I don't have to explain everything to someone new
- It takes less time because they have my details in front of them
- Doctors can see my information from other clinics and doctors



The program and benefits



Benefits for patients

Patients from culturally and linguistically diverse backgrounds:

- This will lead to better communication because I don't have to explain my health history
- My visits will be faster because of having to explain less often
- Doctors don't have to ask so many questions

The program and benefits



Benefits for health care providers

General practitioners:

- GPs will receive timely and legible discharge summaries
- There will be improved communication between GPs and hospital and community health providers
- GPs will have improved access to patient care information
- There will be better handover of care from hospital and community health providers

The program and benefits

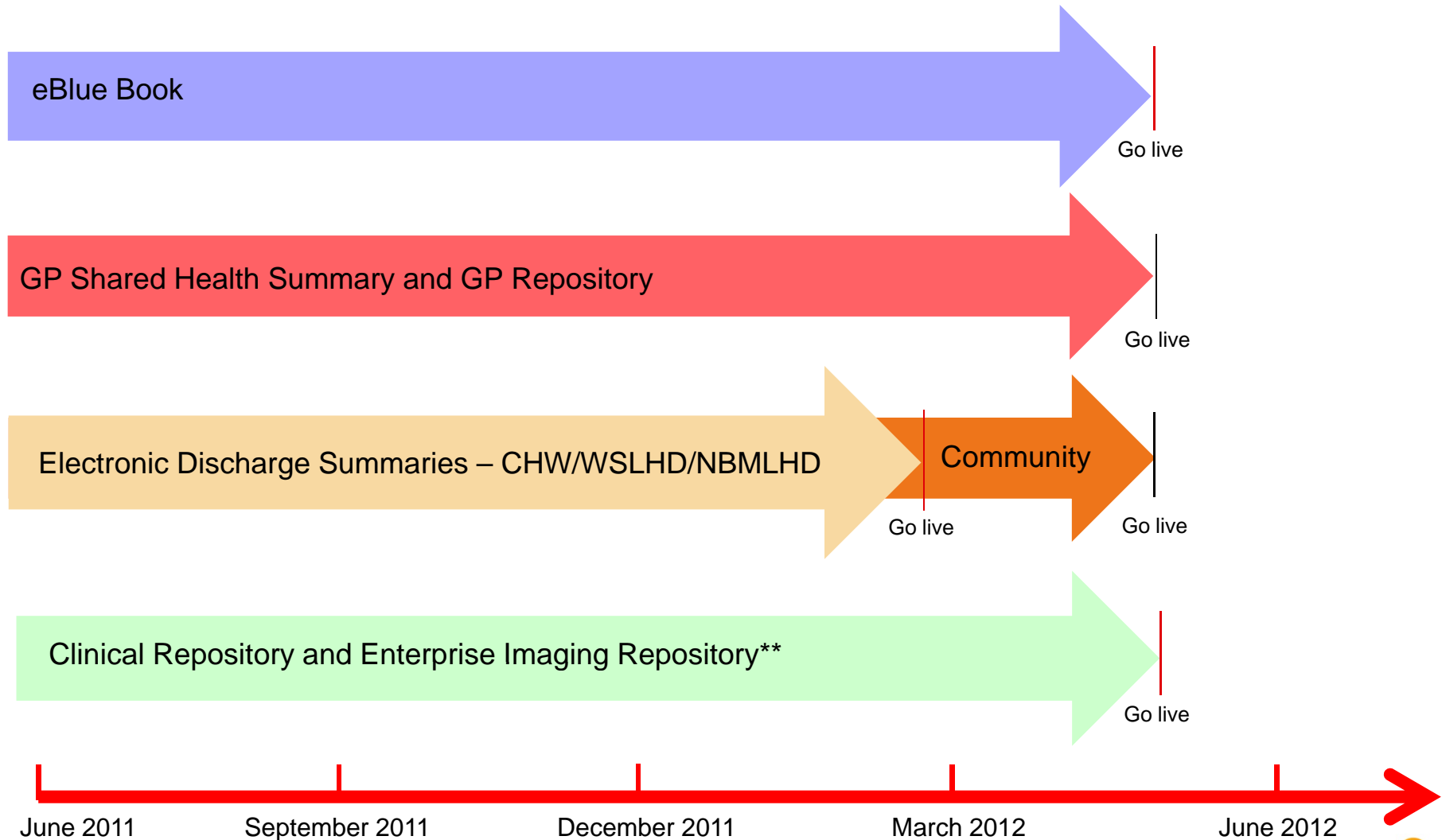


Benefits for health care providers

Hospitals and community health providers:

- Access to up-to-date information about the patient's recent health history
- There will be improved connected care and communication between clinicians and GPs
- There will be improved access to GP information through the shared health summaries

When is all this happening?



2. What the Lead Site for Greater Western Sydney will deliver

An overview of what's happening in Greater Western Sydney

Who's involved?

Private health sector



• 140 GPs



Patients/carers/clients in
Greater Western Sydney

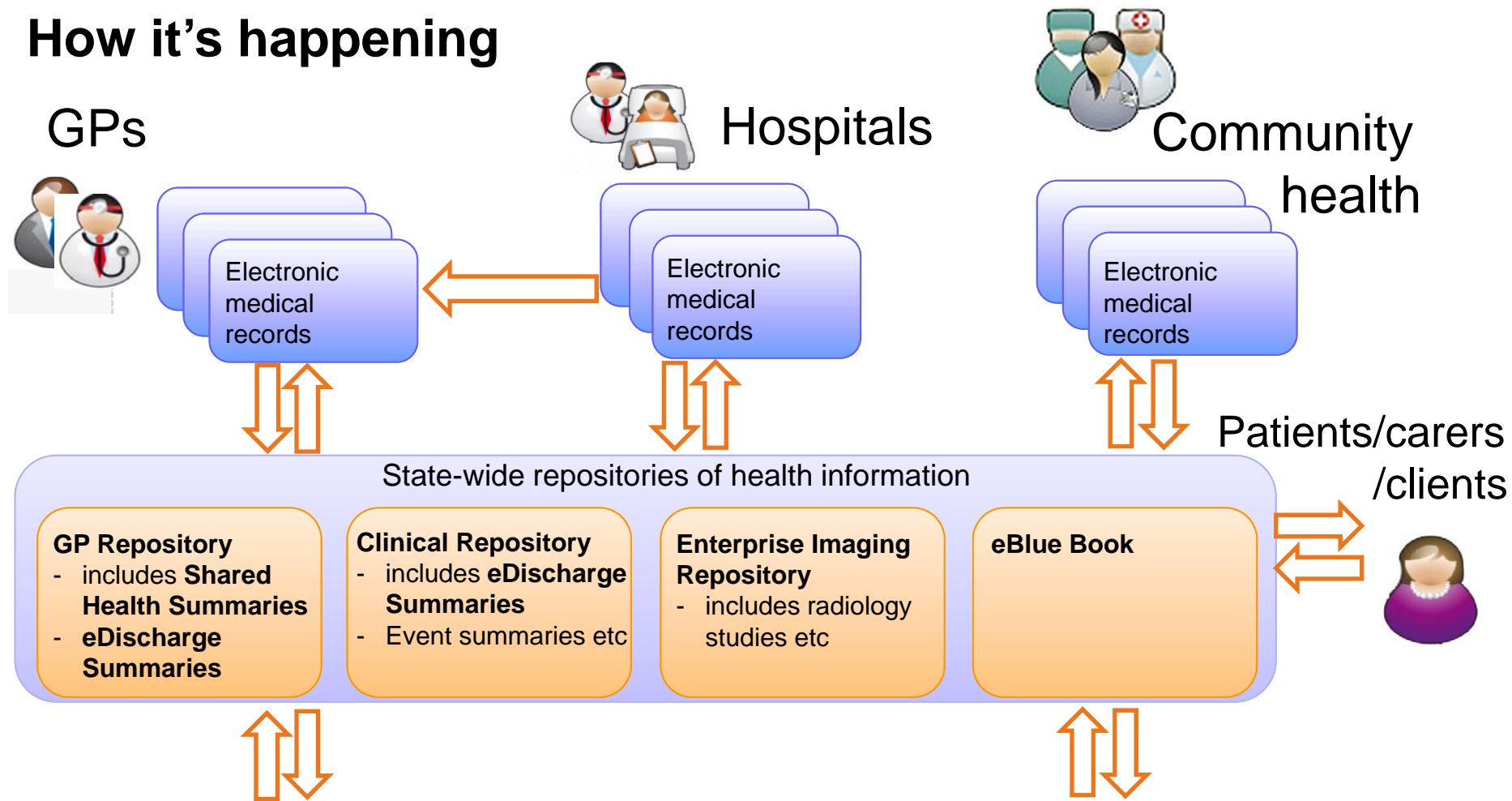
Public health sector



- Primary Care & Community Health Network
- Westmead Hospital
- Blacktown Hospital
- Mount Druitt Hospital
- Auburn Hospital
- Nepean Hospital
- Blue Mountains Hospital
- The Children's Hospital at Westmead

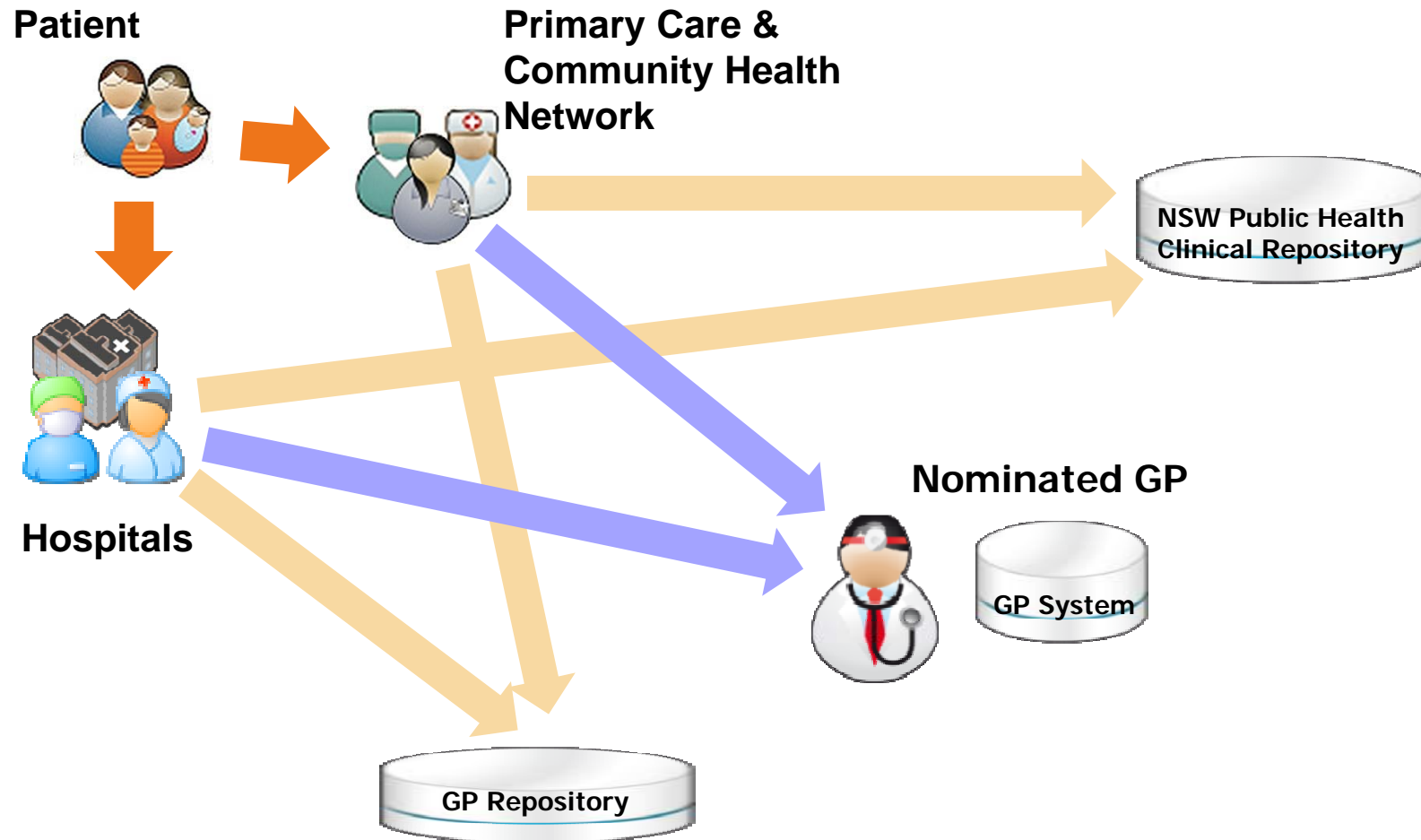
An overview of what's happening in Greater Western Sydney

How it's happening

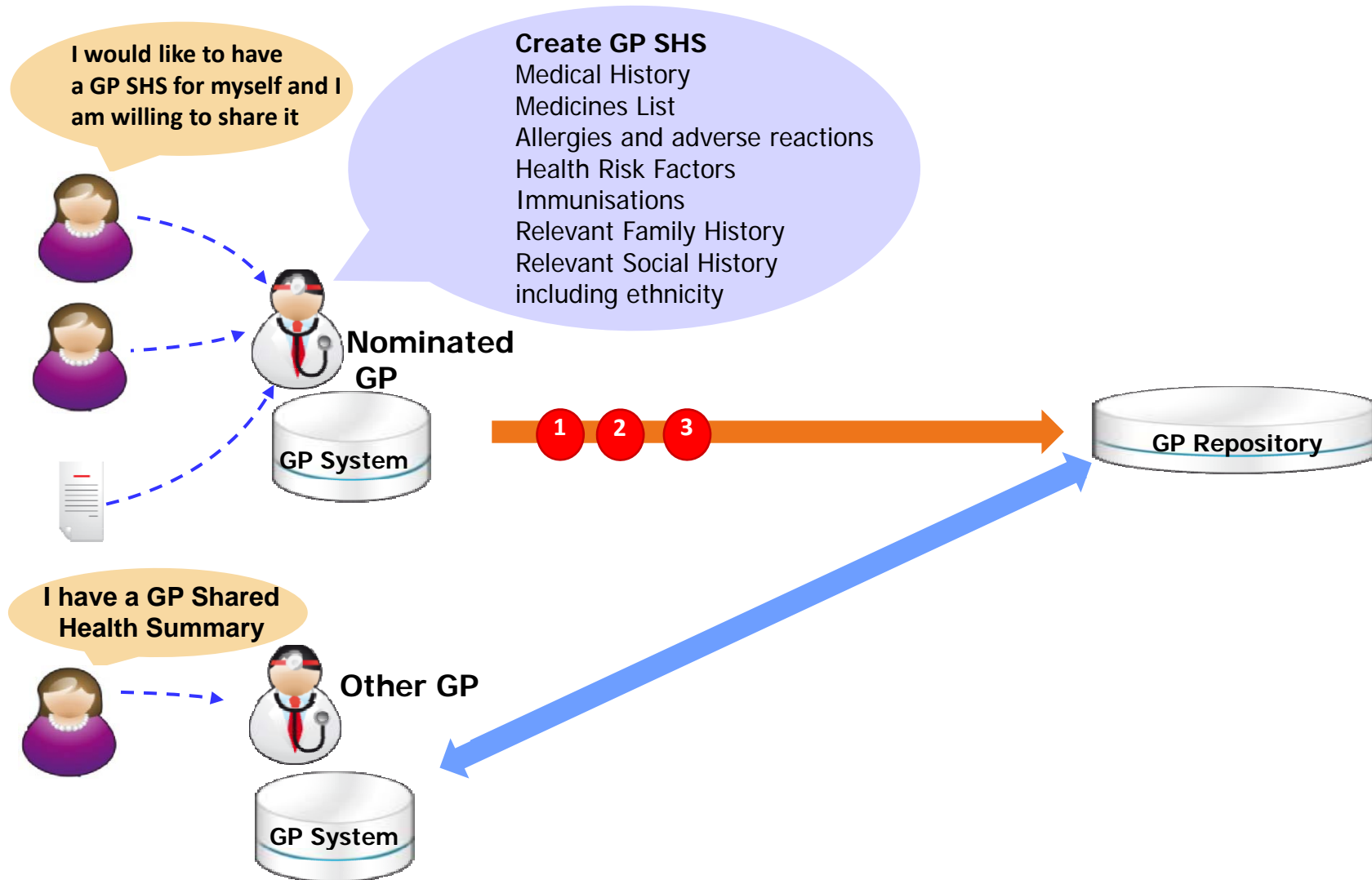


NSW and Australian Infrastructure Services and Health Systems

Electronic Discharge Summaries



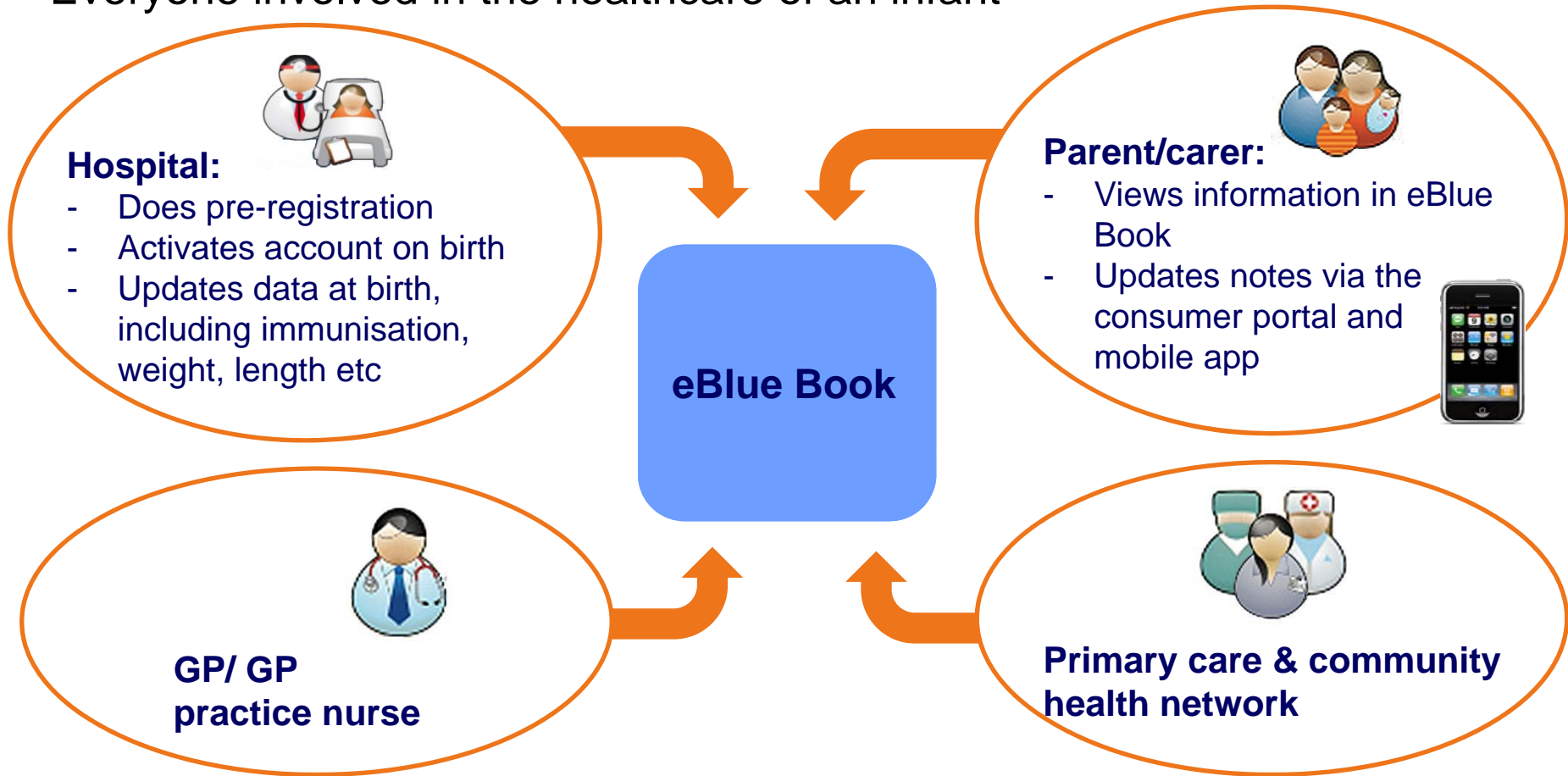
GP Shared Health Summary and GP Repository



eBlue Book

Who provides information?

Everyone involved in the healthcare of an infant



eBlue Book

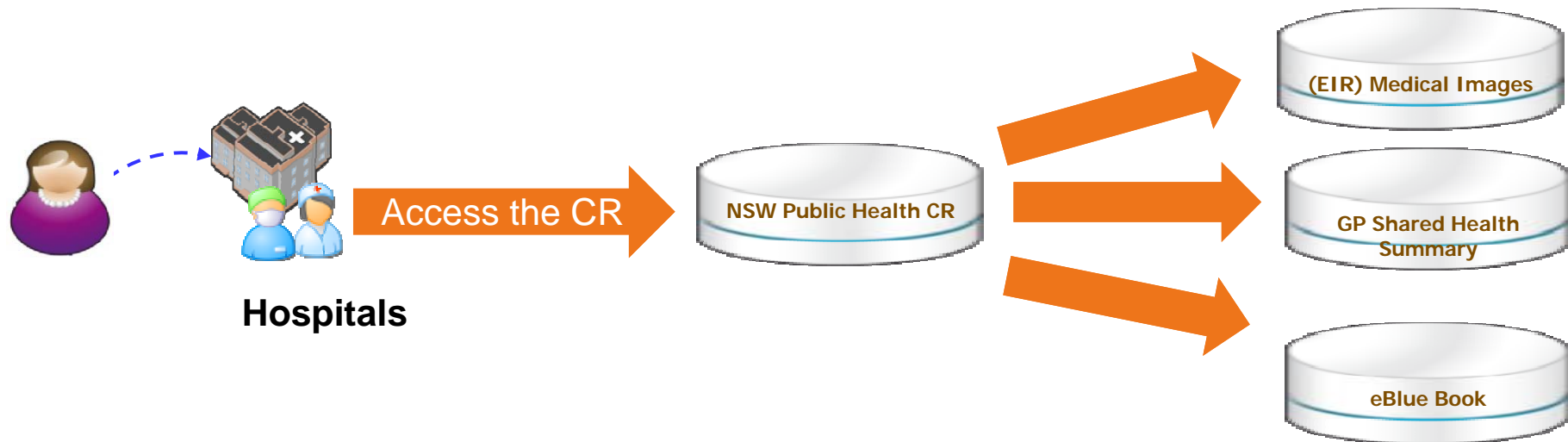
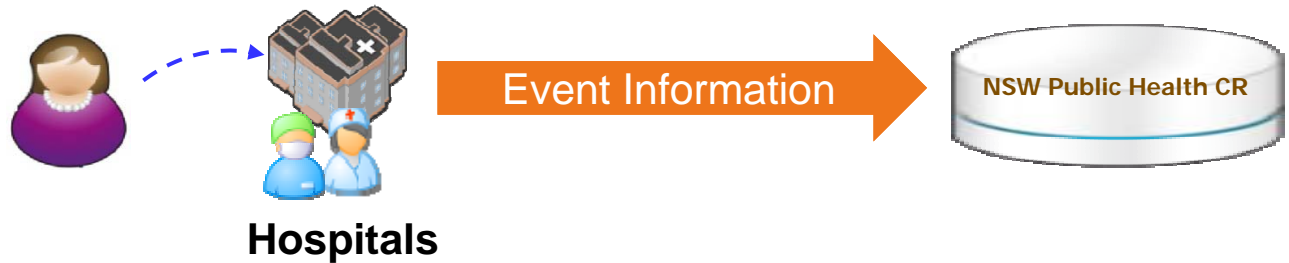
Information contained in the eBlue Book

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eBlue Book

- Child details
- Emergency numbers
- Mother details
- Growth charts
- Child health and development checks
- Provider details
- Immunisation details
- Family history

Clinical Repository (CR) and Enterprise Image Repository (EIR)



More information

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