



Australian Government
Department of Social Services



Priority Investment Approach Actuarial Model and Data, and the Try Test and Learn Fund

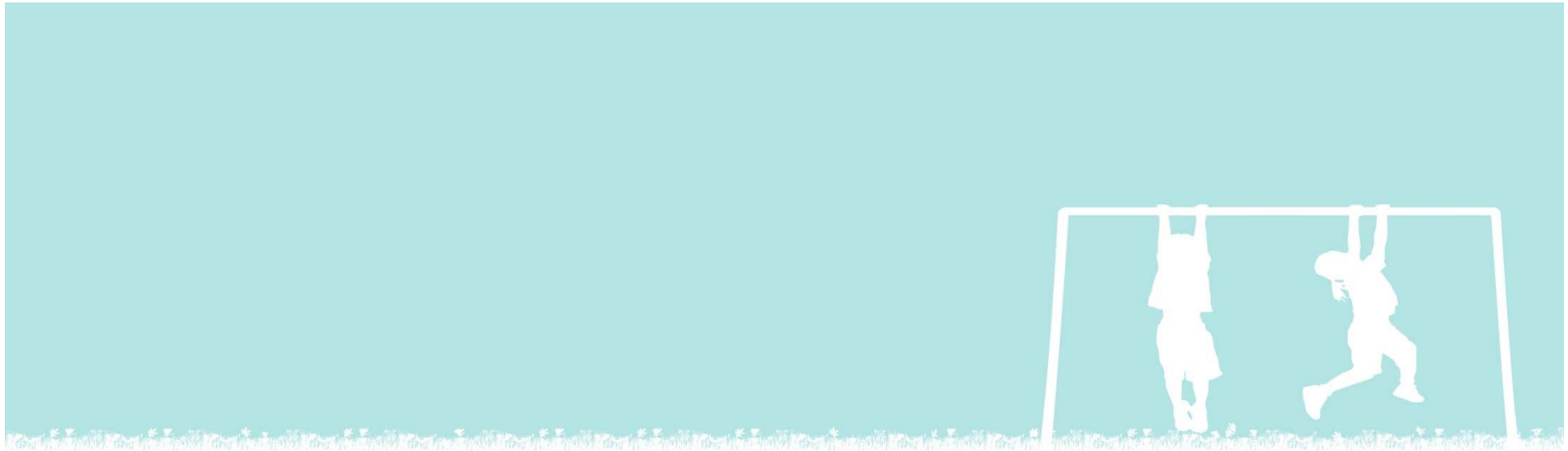
September 2017

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- Brief overview of policy context and current status
- Priority Investment Approach – underpinning data and actuarial model
- Using the model to help evaluate current programs and initiatives
- Try, Test and Learn Fund

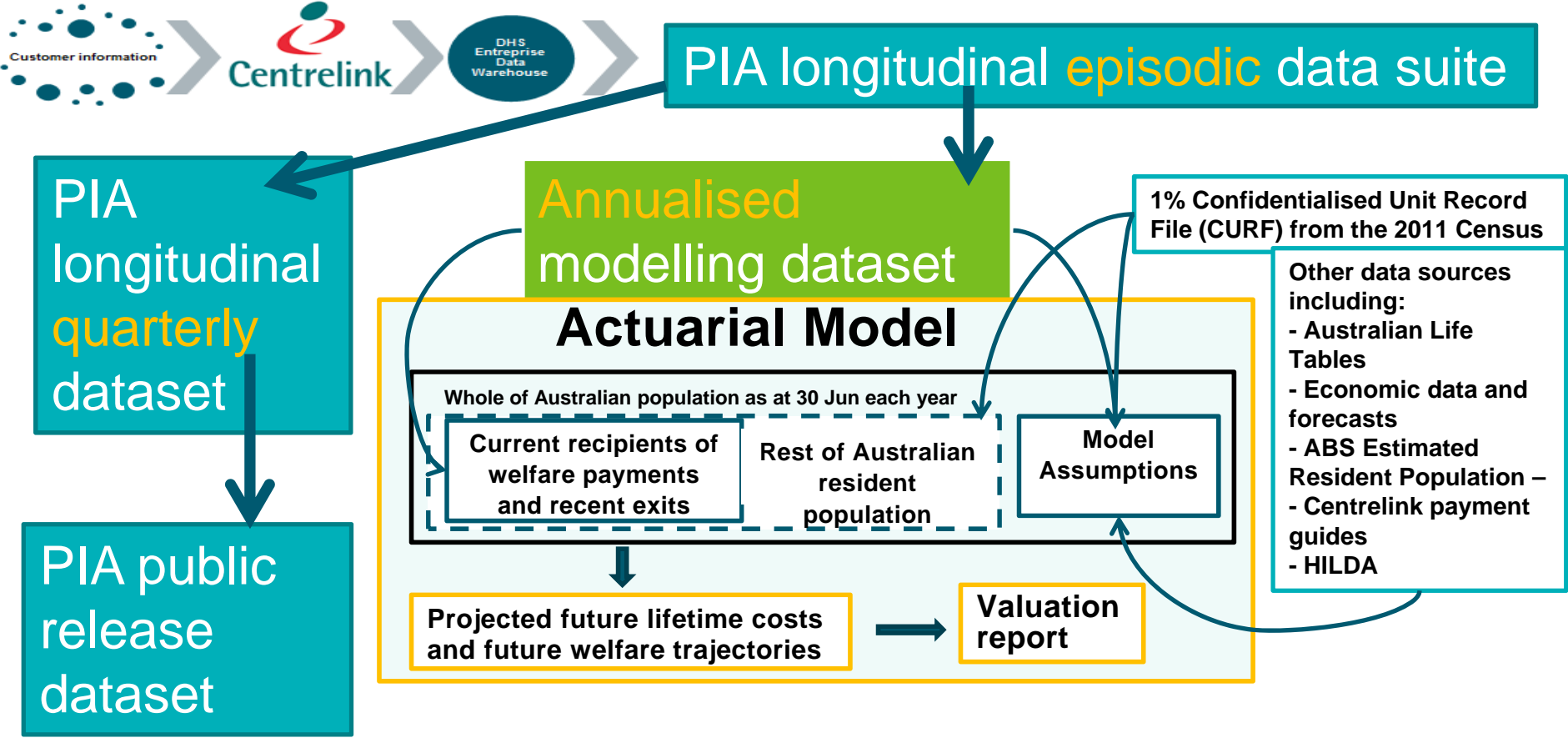
Brief overview of policy context and current status

- Review of Australia's Welfare System
 - A New System for Better Employment and Social Outcomes (McClure Report)
- Completed 2015 baseline valuation
- Completed 2016 valuation
- Work has commenced on the 2017 valuation



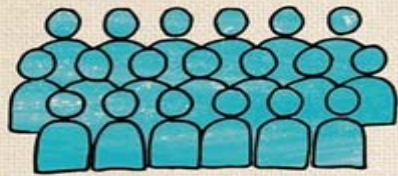
The Priority Investment Approach Underpinning Data & Actuarial Model

Overview of the PIA – How the data and model fits together



THE ACTUARIAL MODEL

THE ELIGIBLE AUSTRALIAN POPULATION HAS ACCESS TO SOCIAL SECURITY



a. People who *currently use* social security and are in the system

Characteristics
GENDER
AGE
PARTNERING
FAMILY CIRCUMSTANCES
DISABILITY
EDUCATION



b. People who have never been in the system but *have potential* to be in the system



IT PREDICTS THE LIFETIME COSTS FOR EACH COHORT



IT IS A FOUNDATION FOR FUTURE VALUATIONS AND FOR POLICY DESIGN

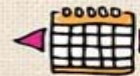
The Baseline Valuation



IT WILL MAKE PROJECTIONS AS TO WHO WILL COME INTO THE SYSTEM, WHO WILL STAY AND WHO WILL LEAVE THE SYSTEM BASED ON EVIDENCE



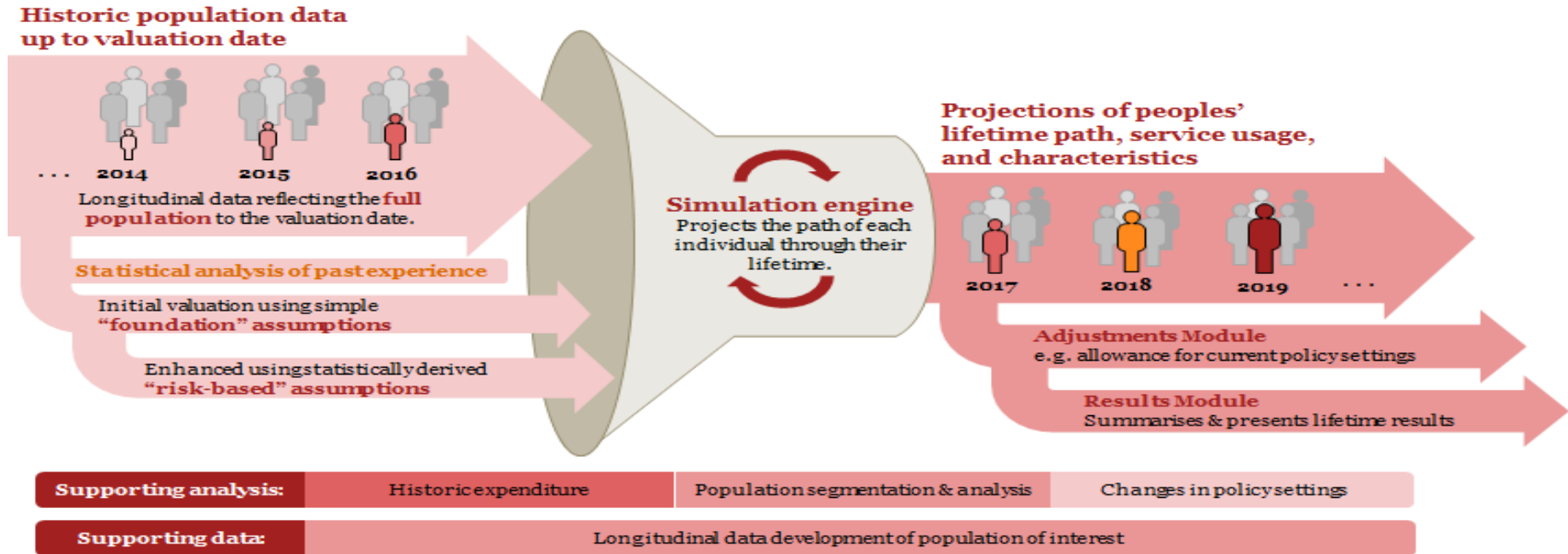
IT WILL MONITOR AND MEASURE THE IMPACT OF INTERVENTIONS



THE REVALUATION WILL

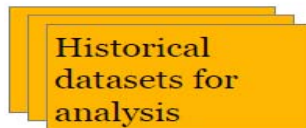
- EXAMINE THE EXPERIENCE OVER THE PAST YEAR
- IDENTIFY NEW PRIORITIES FOR THE NEXT YEAR

Projection model overview



The model process

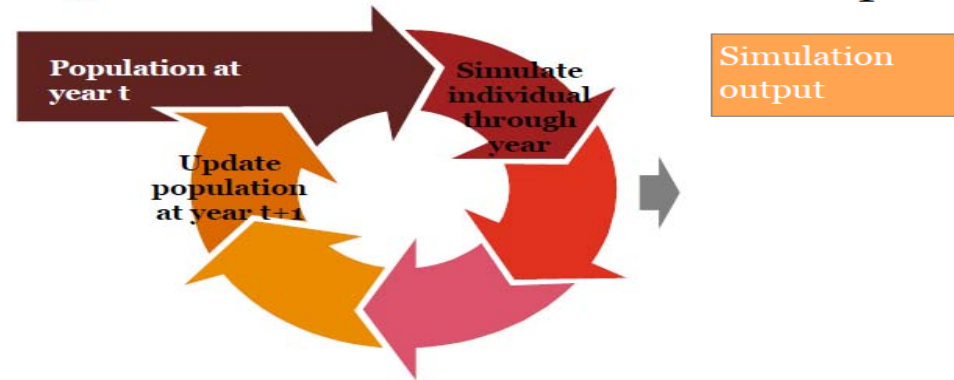
1. Data



2. Inputs

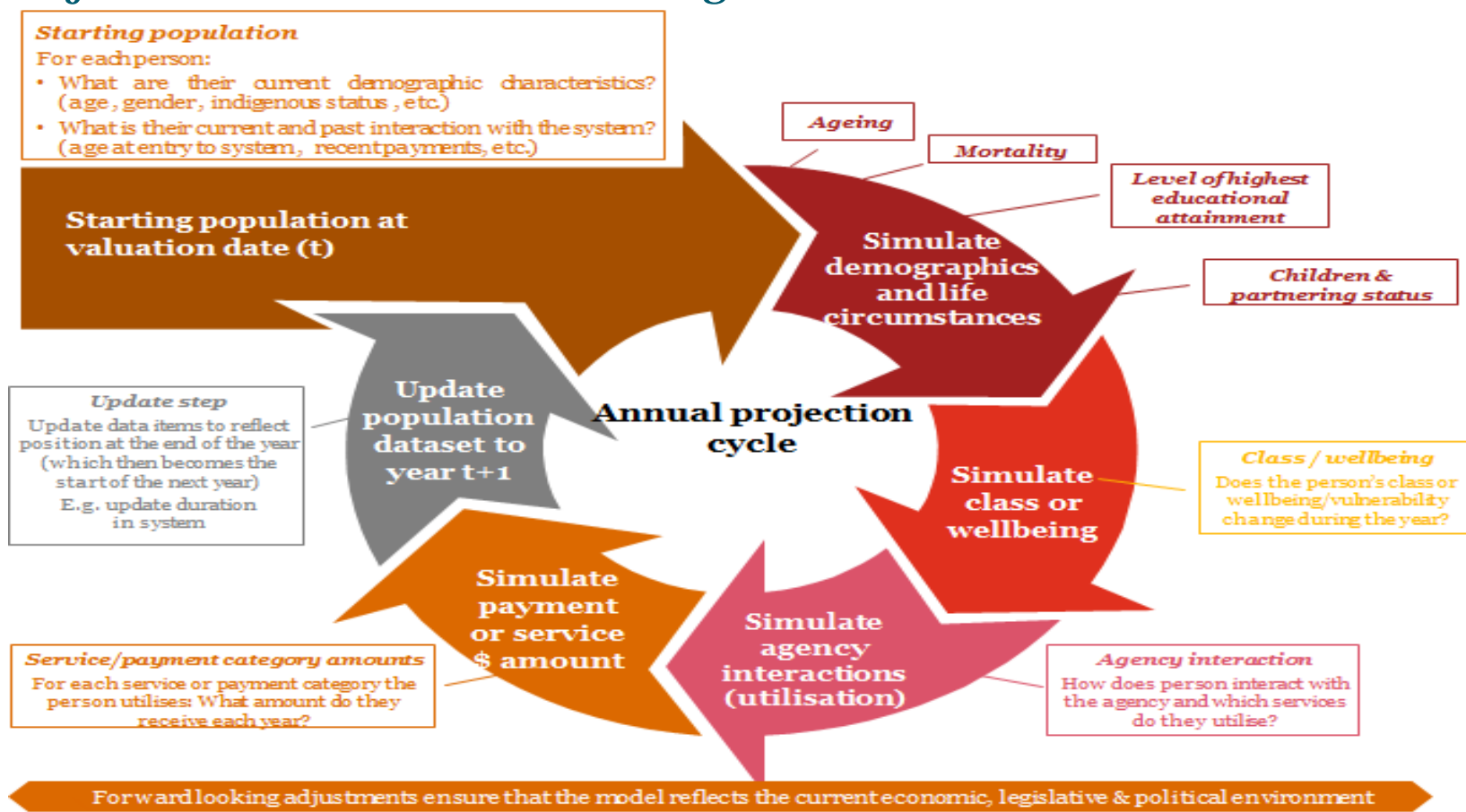


3. Model



4. Outputs

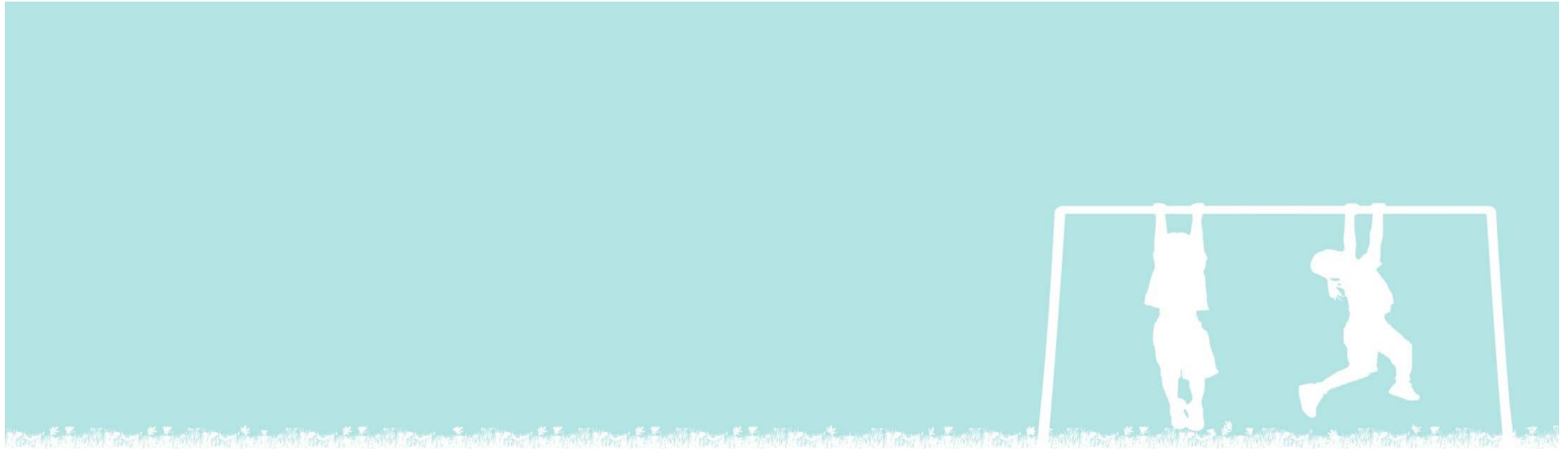
Projection model – simulation engine



Variables considered by the model (2016)

Modelling variables – 2016 Valuation

- Age
- Gender
- Welfare class
- Previous welfare class
- Partner status
- Number of dependent children
- Age of dependent children
- Highest level of education attained
- Duration in welfare class / welfare system
- Age entered welfare system (Age Pension only)
- Indigenous status
- Previous welfare utilisation
- **Income Support payment type (Working Age, Studying and Parenting Classes)**
- **medical condition categories**
- **Employment earnings indicator**
- Place of birth
- **Relationship of carer to care recipient (Carer Payment only)**
- **Number of care recipients (Carer Allowance only)**
- **Age of care recipients (Carer Payment only)**



Using the model to help evaluate current programs and initiatives

Evaluating programs and interventions

Step 1. **Using historical admin data** to define the population of interest

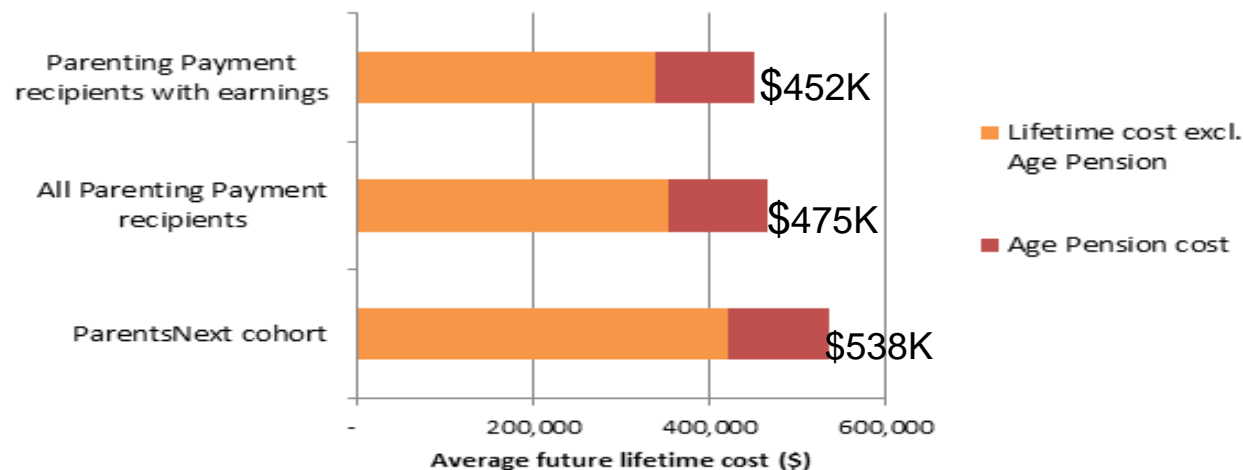
Step 2. **Running the actuarial simulation model** on the population of interest to produce average future lifetime cost (LTC) estimates and future welfare pathway predictions.

Step 3. **Running the actuarial simulation model** on an appropriate reference group to produce average future LTC estimates.

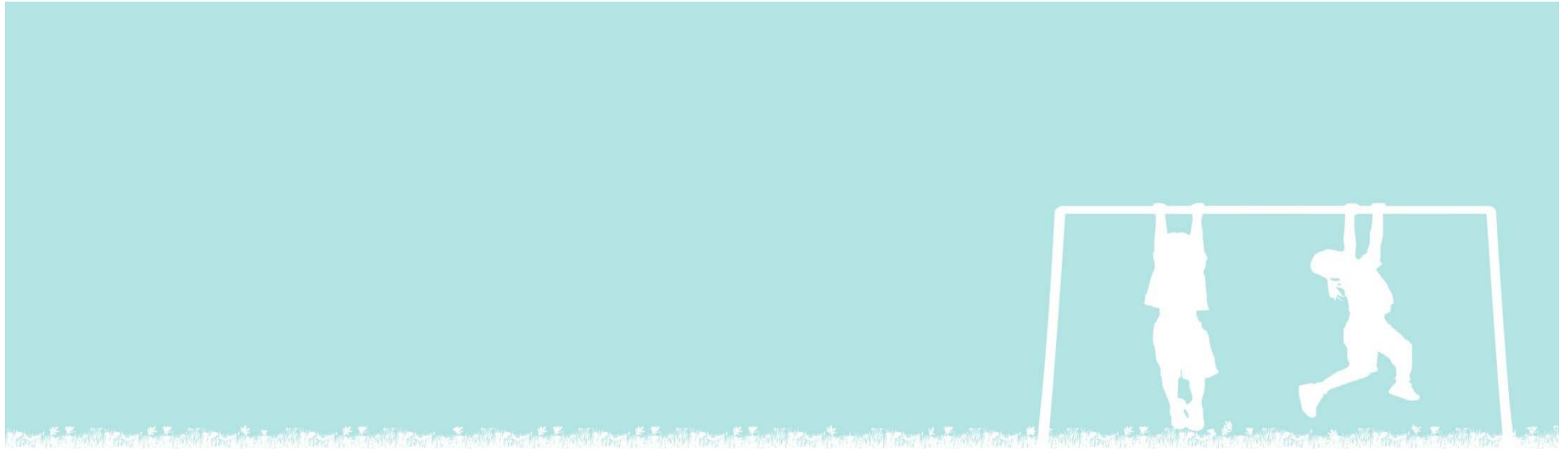
Evaluating programs and interventions: ParentsNext program

Cohort: 16,494 Parenting Payment recipients who commenced ParentsNext between April 2016 and June 2017

Average future lifetime costs: ParentsNext cohort vs. reference groups

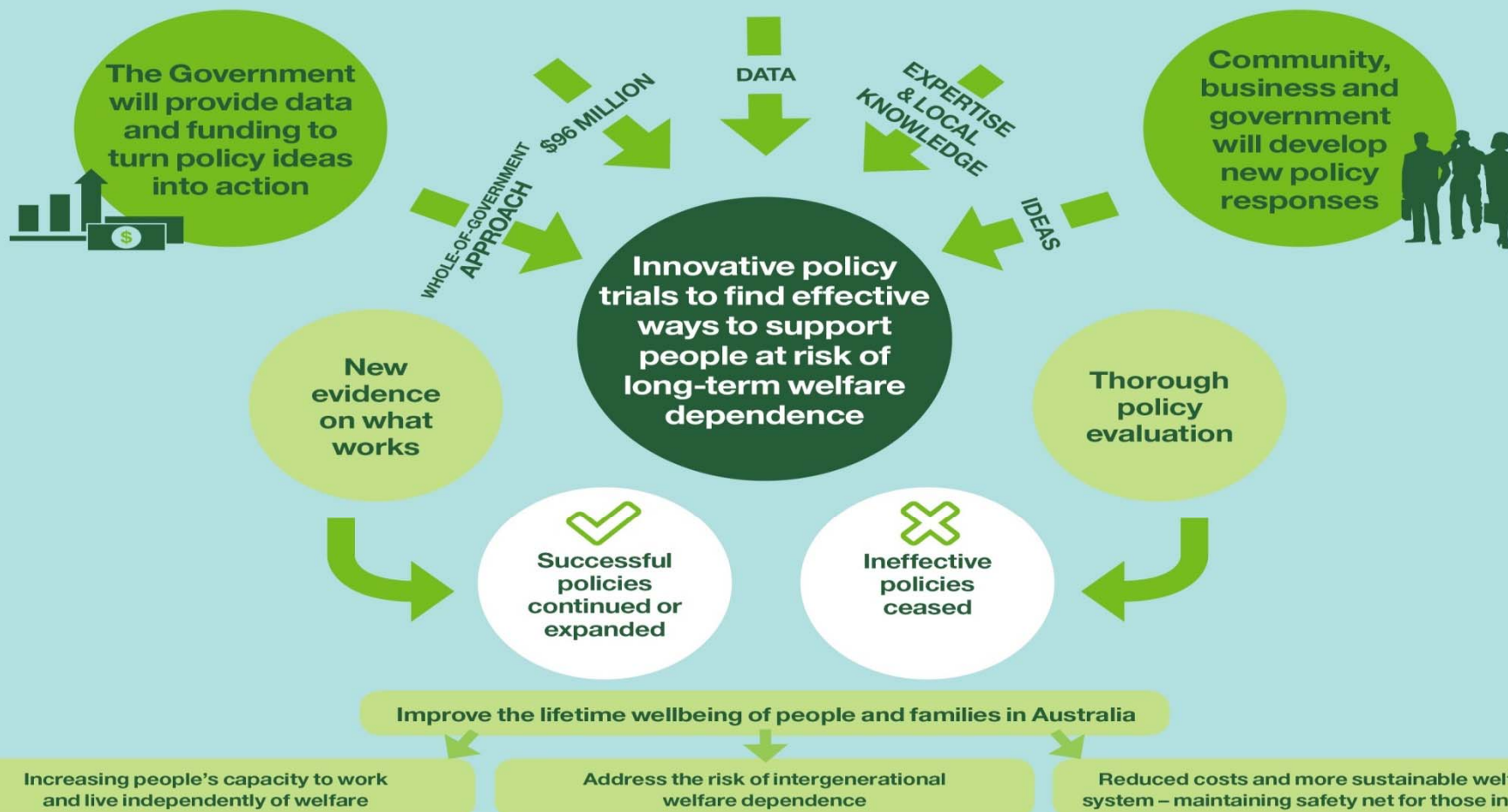


The higher lifetime costs of ParentsNext cohort suggests that they are **more disadvantaged** compared to the wider Parenting Payment recipients group.



Try, Test and Learn Fund

Try, Test and Learn Fund



Initial priority groups

Young parents: young people aged under 25 who started receiving Parenting Payment at age 18 or under and who are still receiving an income support payment.

Young carers: young people aged under 25 who are in receipt of Carer Payment or at immediate risk of going onto the payment.

Students at risk of unemployment: young people aged under 25 who have moved, or are at risk of moving, from study (post-secondary or tertiary and been in receipt or receiving a student payment) to an extended period on an unemployment payment.

How the Try, Test and Learn Fund works

The four key phases of a tranche of the Try, Test and Learn Fund



Outcomes of Tranche 1 of the Try, Test and Learn Fund

- Nearly 400 ideas were submitted to Tranche 1 of the Fund from the community sector, business, academics and individuals.
- A shortlist of submitted ideas was co-developed into robust project proposals in a process facilitated by independent co-design experts and involving idea proponents and other relevant experts, with support from DSS.
- We anticipate funding approval soon for a number of Tranche 1 projects, with roll out expected from late 2017.

The importance of evaluation and co-design

- Interventions introduced using a ‘try, test and learn’ approach.
- Developing an evaluation/evidence framework is a key element of the co-design process with end users and other key stakeholders.
- The actuarial analysis will form an important component in determining the effectiveness of interventions and policy settings will be refined on the basis of robust and ongoing evaluation.
- Interventions are evaluated to determine “what works for whom” and adjusted, scaled or ceased accordingly.
- Interventions could be piloted and refined on a smaller-scale before being scaled to a larger or national level if they are proven effective.

Future tranches of the Try, Test and Learn Fund

- Work is underway to develop a framework for systematically identifying future groups of interest, utilising the Priority Investment Approach model and data.
- Groups of interest will be identified through statistical modelling, using the PIA data and actuarial model outputs.
- Qualitative policy considerations will be used to further refine deliberations on groups identified through this quantitative process.
- A key consideration in selecting groups will be the historical and projected future welfare dependency of individuals within each group, and the range of possible future welfare pathways.
- Targeted trials aimed at assisting members of the newly-identified groups will be developed through future tranches of the Fund.

Any Questions?

Thank you