

'Acknowledgement of Country' by Jonathan Hill

*Today we stand in footsteps millennia old.
May we acknowledge the traditional owners
whose cultures and customs have nurtured,
and continue to nurture, this land,
since men and women
awoke from the great dream.
We honour the presence of these ancestors
who reside in the imagination of this land
and whose irrepressible spirituality
flows through all creation.*

Source: **Jonathan Hill is an Aboriginal poet living in New South Wales.**

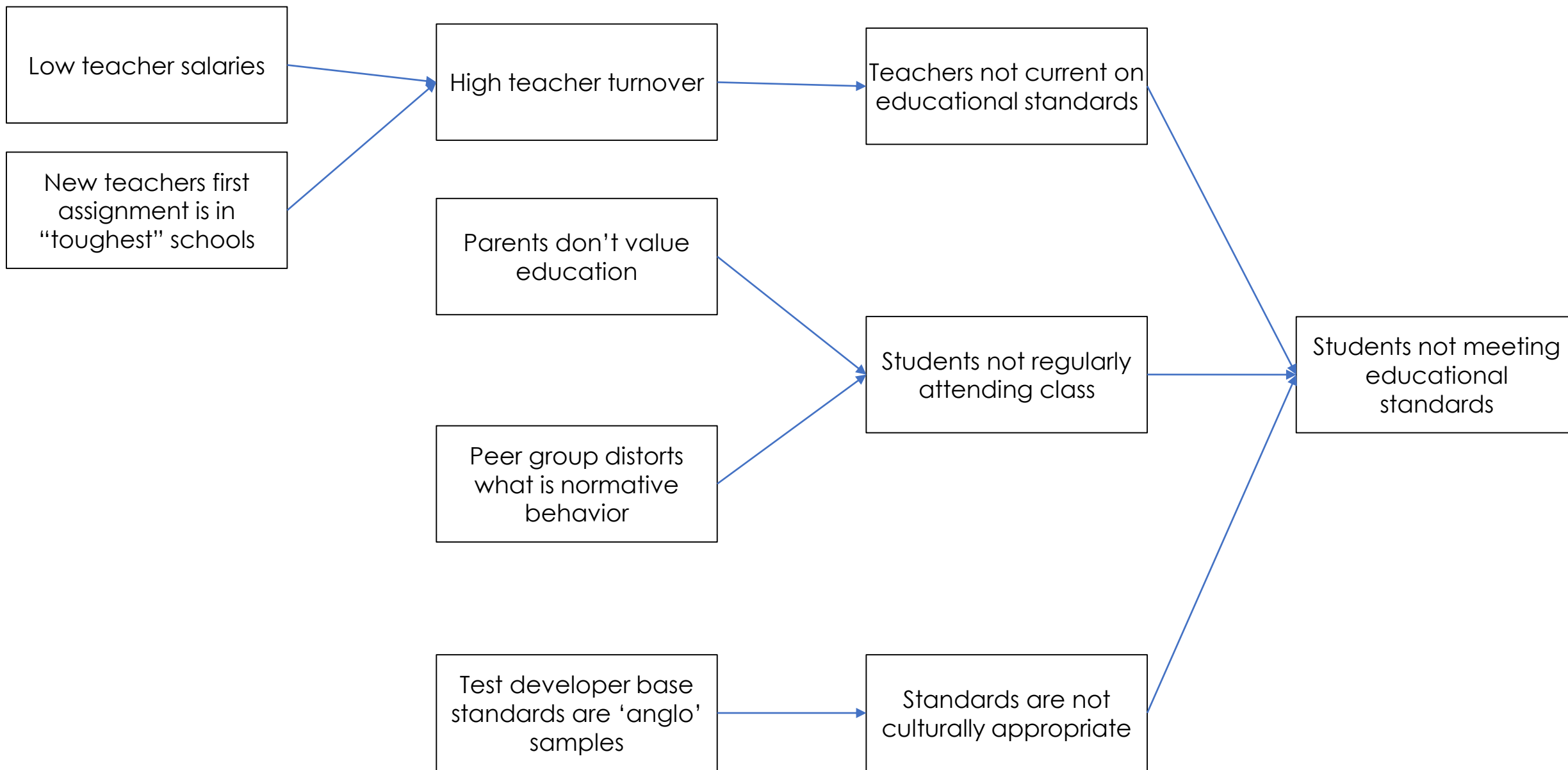


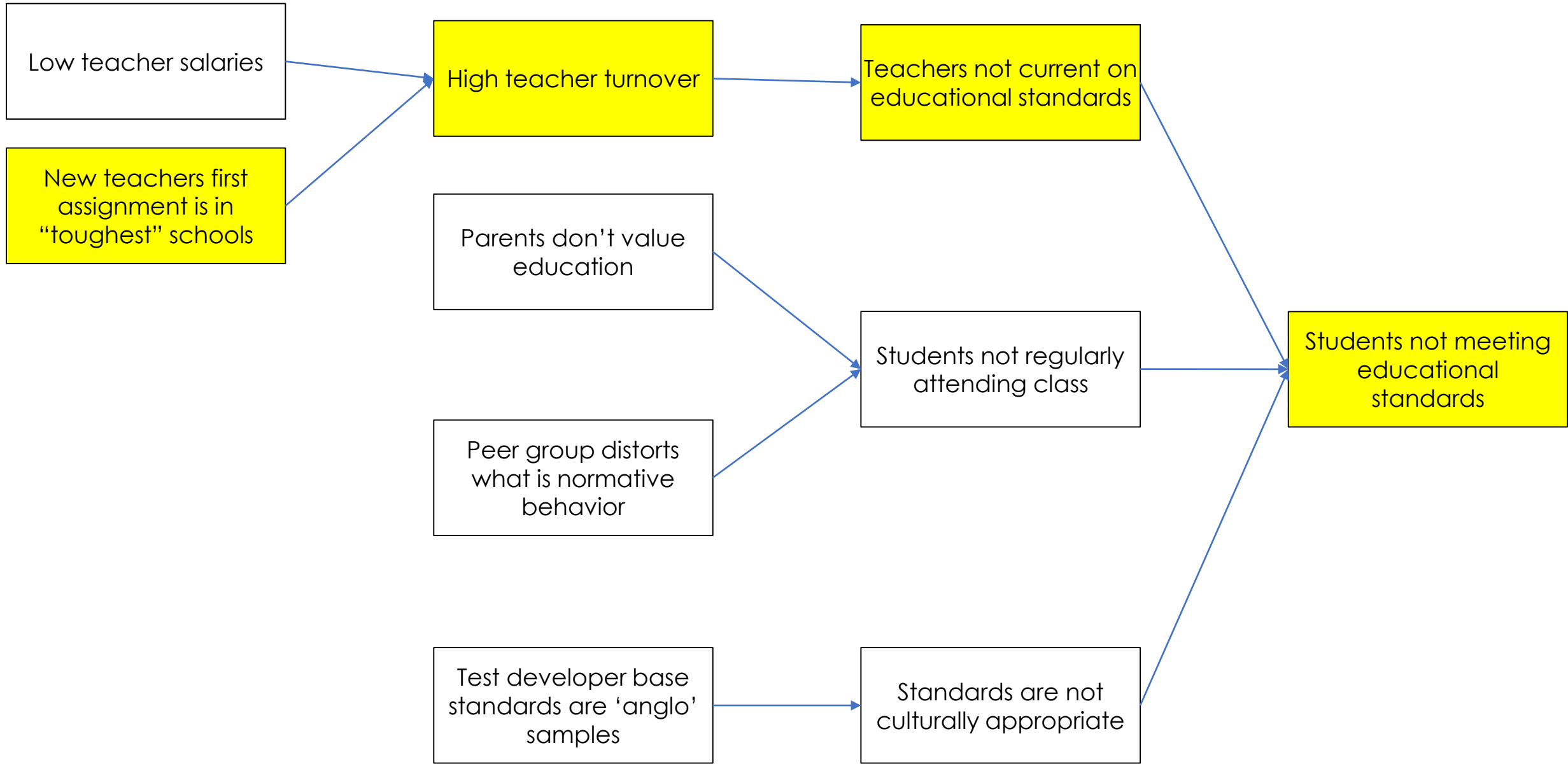
Application

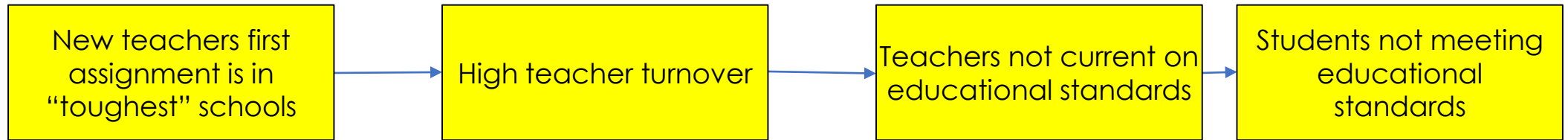
Systems Evaluation Theory



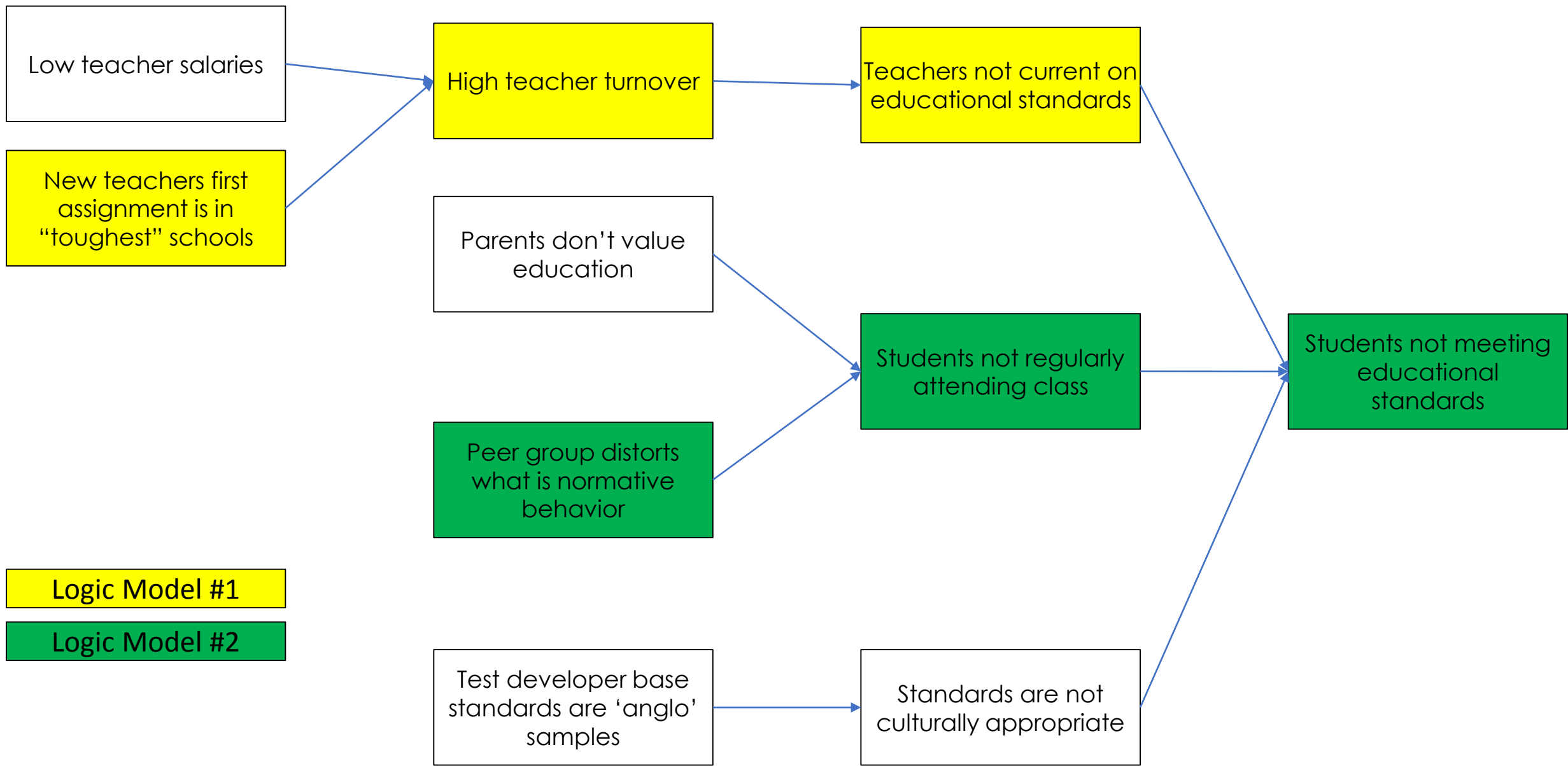
Why SYSTEMS
THINKING?

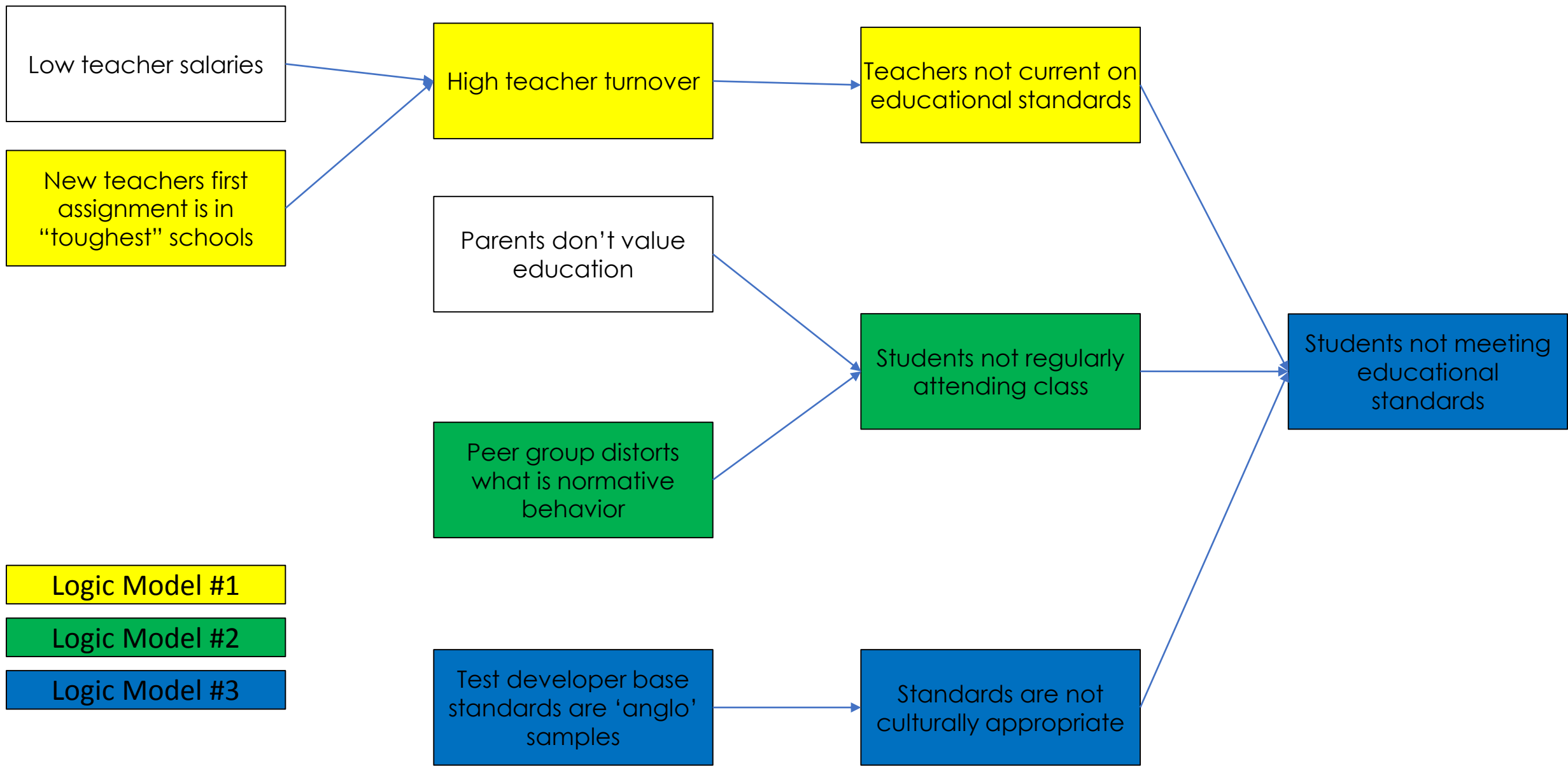


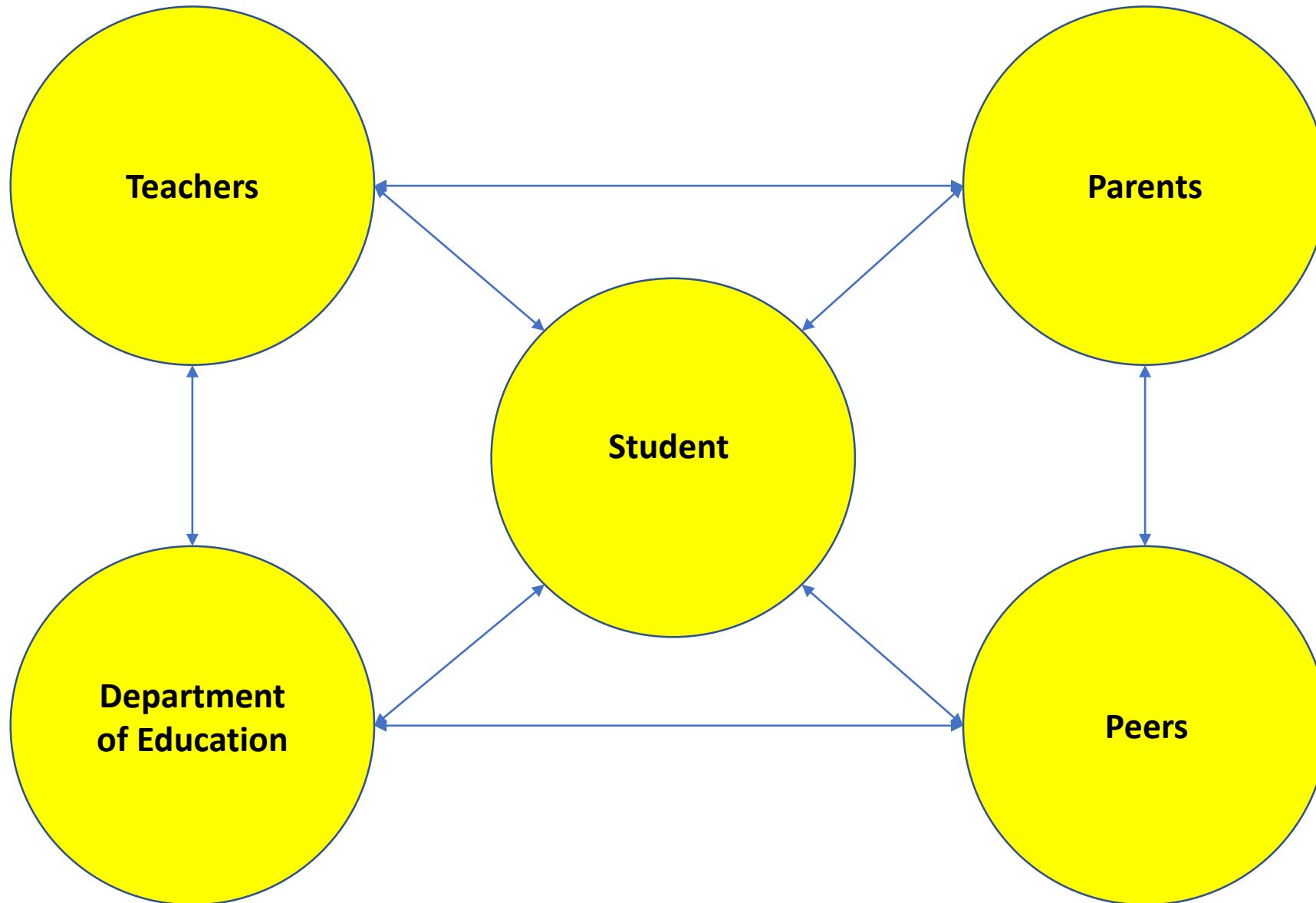




Program Assumptions	Intervention	Inputs	Outputs	Immediate	Intermediate	Long Term
If new teachers are brought along slowly they will be better prepared for tougher challenges, have longer tenure, be better prepared and students will have higher achievement	Teacher mentoring program	Funding Mentor training curriculum	Number of teachers in program	Lower teacher attrition rates	Teacher curriculum aligned with standards	Improved test scores









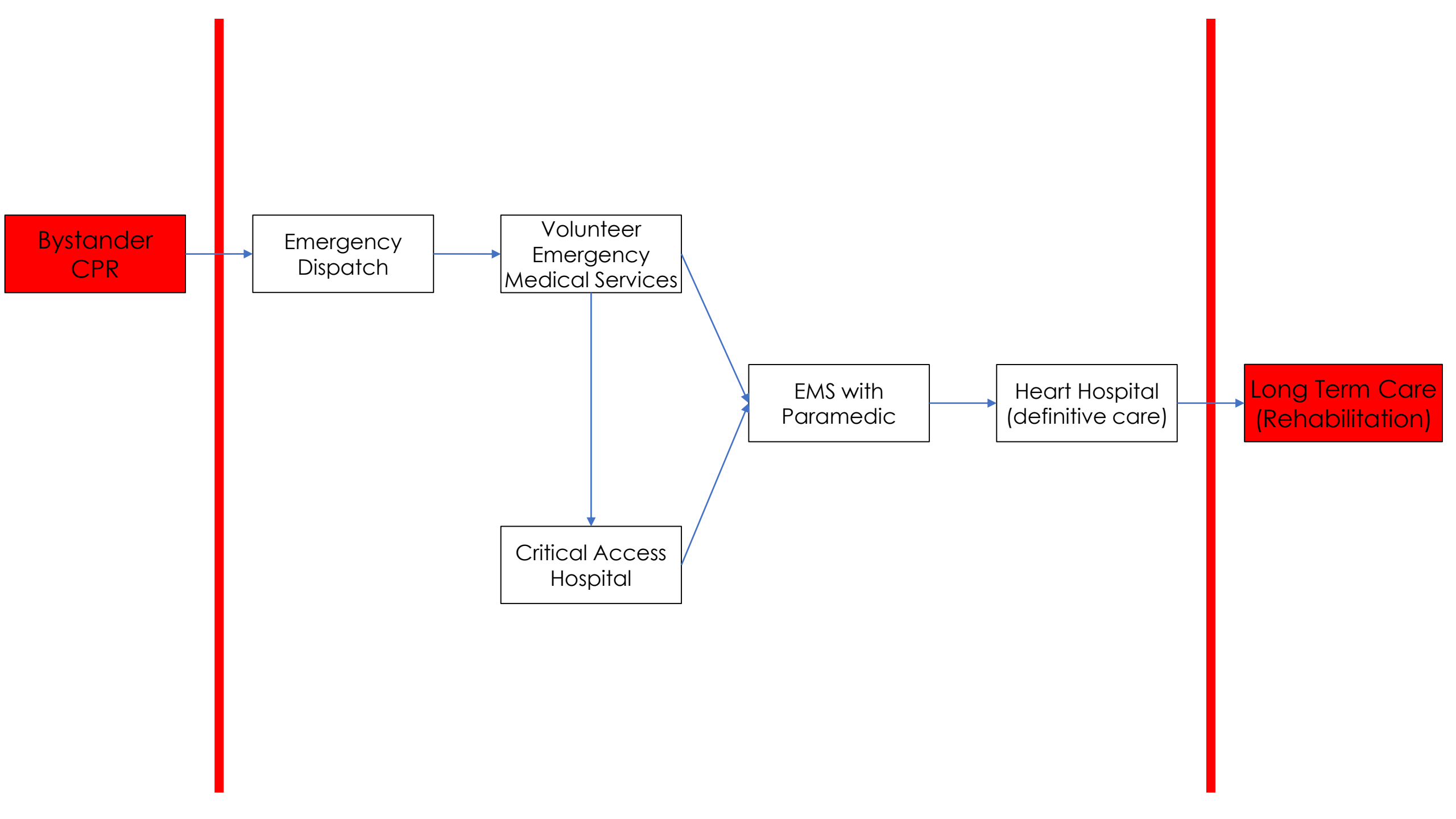
Boundaries

- Define system boundaries
 - Define common system goals
 - Define system inputs
 - Validate definitions and goals
- Define subsystems and subsystem boundaries

Goal

Get patient to definitive care as quickly as possible





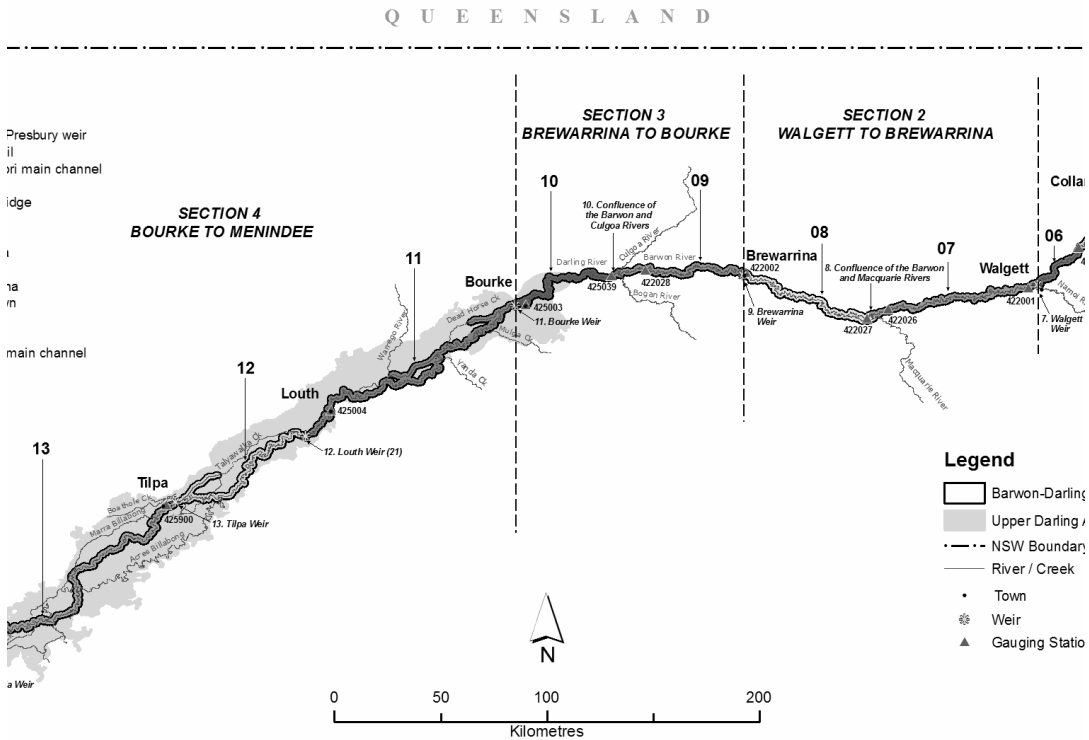
Goal

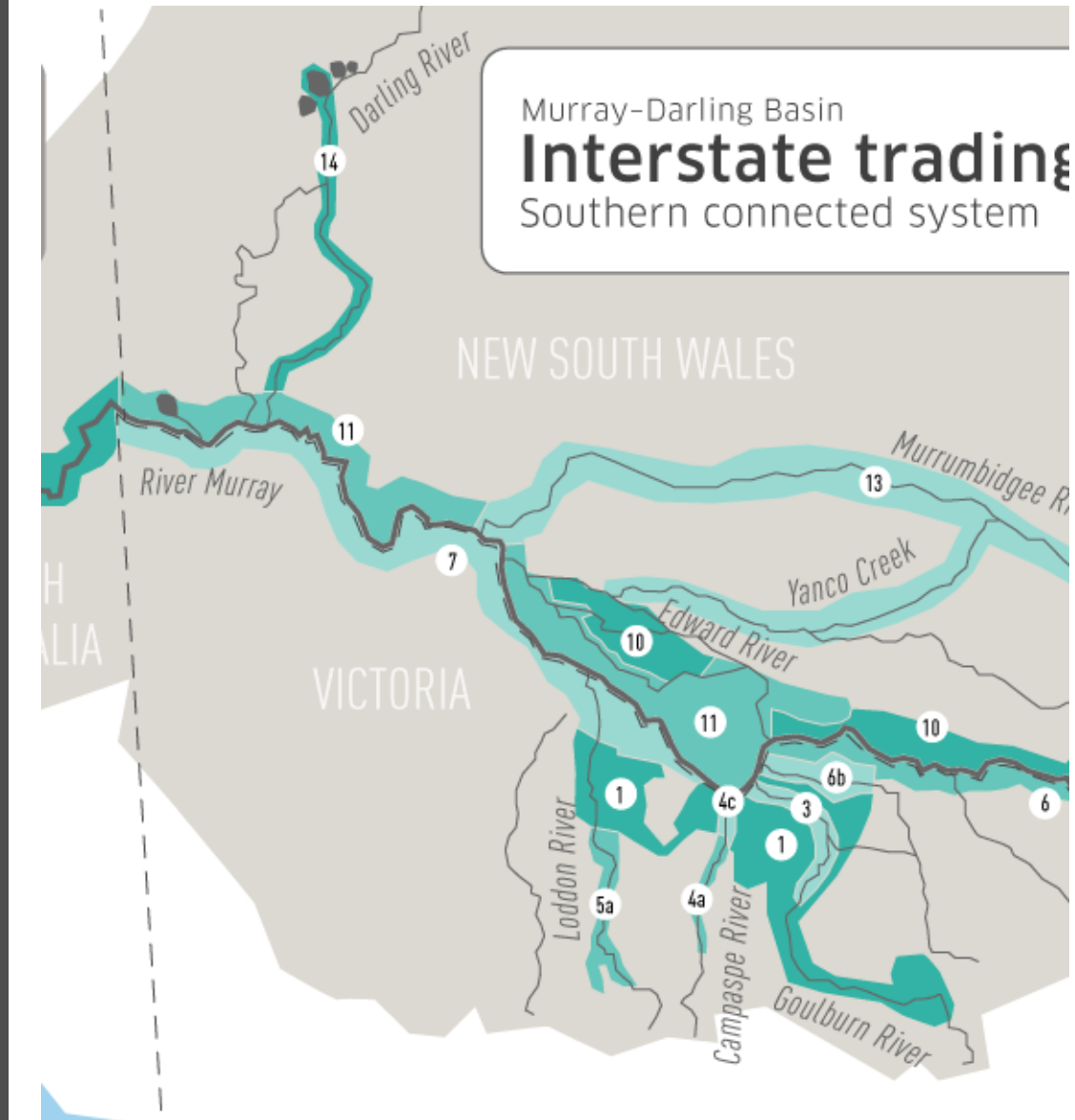
To improve the Basin's environment, while balancing social and economic needs in a sustainable way.



NAME

- | | | |
|---|----|--|
| fluence Management Zone | 08 | Boorooma to Brewarrina Management Zone |
| lpsream Mogil Mogil Weir Pool Management Zone | 09 | Brewarrina to Culgoa River Junction Management Zone |
| ement Zone | 10 | Culgoa River Junction to Bourke Management Zone |
| ollarenebri Management Zone | 11 | Bourke to Louth Management Zone |
| lgett Weir Pool Management Zone | 12 | Louth to Tilpa Management Zone |
| ent Zone | 13 | Tilpa to Wilcannia Management Zone |
| ooma Management Zone | 14 | Wilcannia to Upstream Lake Wetherell Management Zone |







Perspectives

- Capture, critically deliberate on, work to understand, represent, and appropriately address diverse perspectives
- Seek dissent as well as consensus

Perspective...





Feedback Loops

- System feedback mechanism
 - How well is it functioning?
 - Within systems
 - Between systems
- Closed?
- Frequency, timeliness, credibility, specificity, and relevance.

急診即時資訊

等待候診人數

2

等待推床人數

0

等待住院人數

11

等待加護病床
人數

1

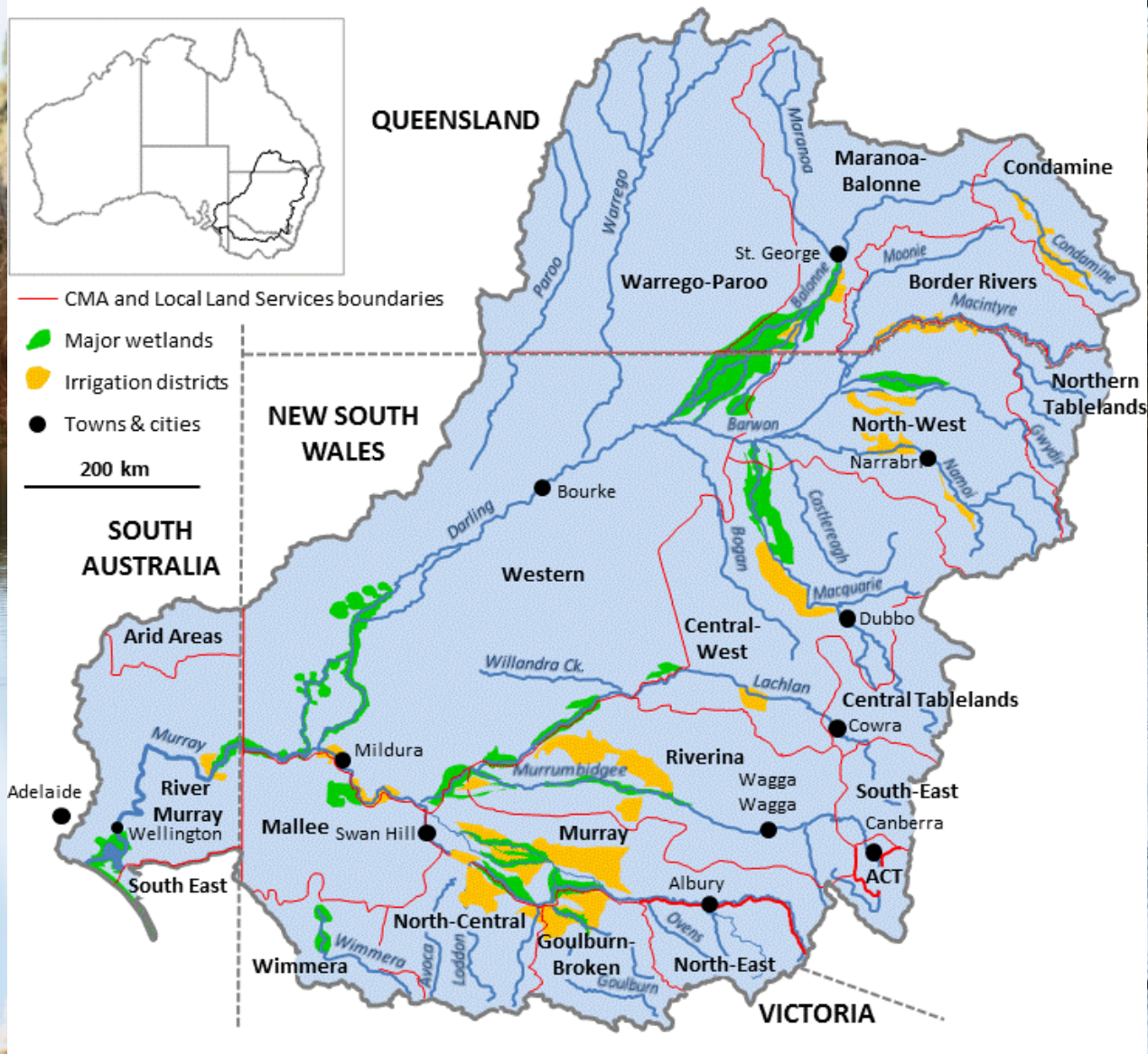
未向119通報滿床

預防流感，請落實洗手等個人衛生措施，避免接觸禽鳥類；
返國後如出現發燒、咳嗽等類流感症狀，應戴上口罩儘速就醫

19/9/11 上午 10:48:03



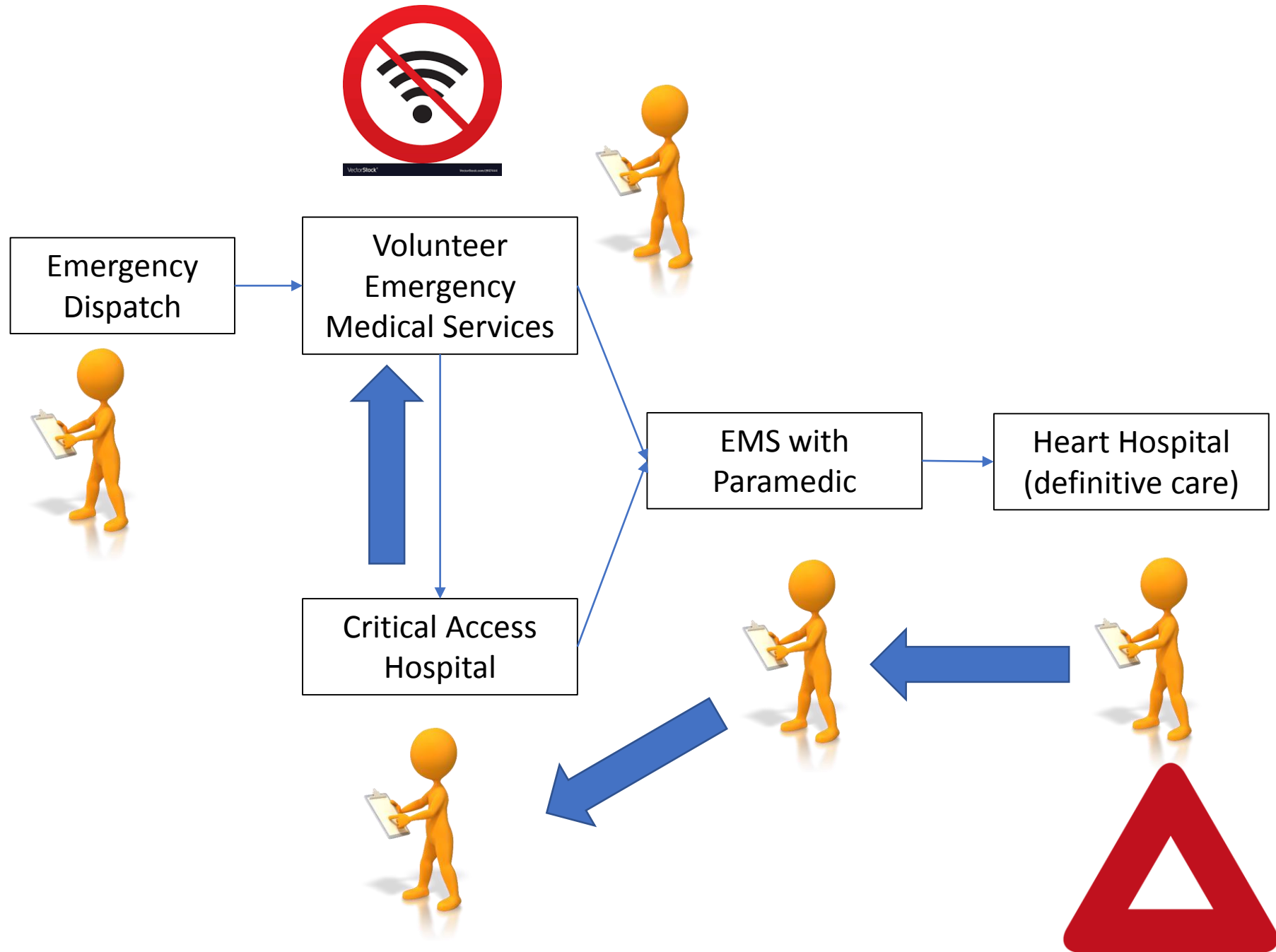
風味





Cascading failure

- A problem is passed from one subsystem to a downstream subsystem creating a domino effect
- Undermines system efficiency and effectiveness







2019 Menindee fish kills

- Insufficient oxygen – created by blue green algae
- Not enough water to avoid catastrophic outcomes

(excess water extraction upstream – each water sharing plan, intermingled with water trading, contributed to this failure)

An aerial photograph showing a winding river with blue water, surrounded by dense green trees and vegetation. In the foreground, there are rows of green agricultural fields, possibly a vineyard. The background shows a flat landscape under a clear sky.

NSW minister altered Barwon-Darling water-sharing plan to favour irrigators

.... the combined impact of the changes was that diversions of water for irrigation grew by 32% or 51.4 GL

<https://www.theguardian.com/australia-news/2018/feb/08/nsw-minister-altered-barwon-darling-water-sharing-plan-to-favour-irrigators>



Reflex Arcs

- The ability of a system, in certain circumstances, to cut out unnecessary steps

