



Improving & Driving Excellence Across Sectors

From Ideas to Action: Identifying Change Ideas for Quality Improvement

Jim Handyside

Curriculum Lead, IDEAS
Institute of Health Policy,
Management and Evaluation
University of Toronto

Vivian Yu, MHSc, CHE

Program Director, IDEAS
Institute of Health Policy,
Management and Evaluation
University of Toronto



Outline

- What is IDEAS? You're invited!
- Key principles of IDEAS and your QIP
- Improvement learning structure: Driver Diagram thinking
- Moving between concepts and ideas
 - Alternatives
- Lateral thinking
 - Random Entry

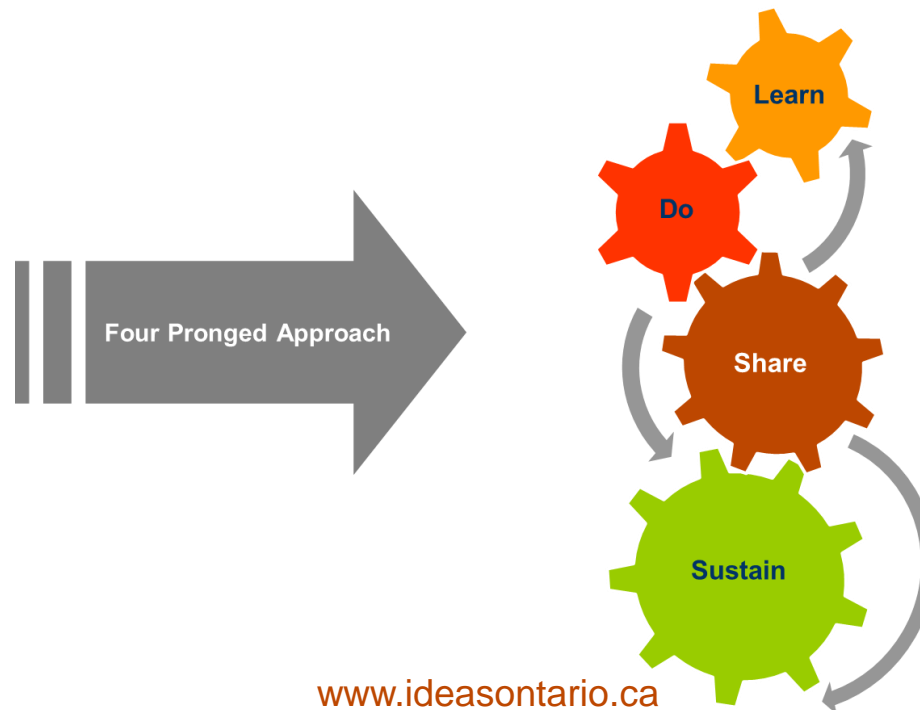


ABOUT IDEAS



What is IDEAS?

- IDEAS is a province-wide learning initiative to advance Ontario's health system priorities by building capacity in quality improvement, leadership and change management across all health care sectors.



Learn. Do. Share. Sustain.

- **Advanced Learning Program**

- Individuals leading QI projects
- 9 full-day classes over 5 months
- Applied learning project supported by coaching
- Delivered at UofT



- **Introductory Quality Improvement Program**

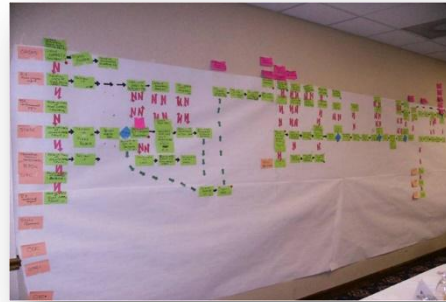
- Individuals participating in/would like to participate in QI projects
- 2 days
- Delivered by university partners in Toronto, Hamilton, London, Kingston, Ottawa, Northern Ontario and surrounding areas

Learn. Do. Share. Sustain.

Team-Based Approach



Applied Learning



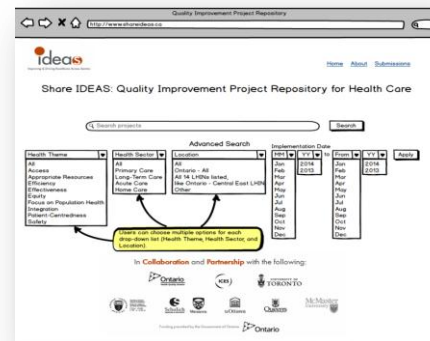
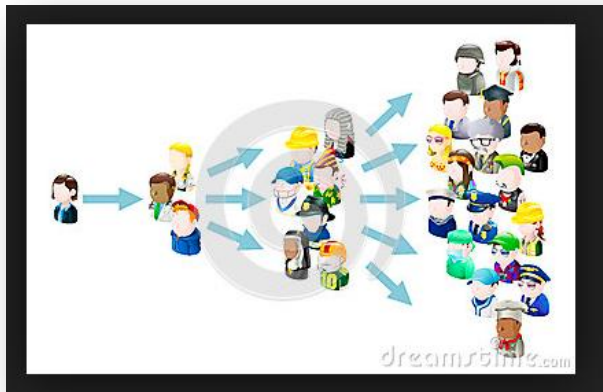
In-Class Learning

- Core Competencies
 - Planning QI in complex adaptive systems
 - Clinical QI theory, methods and tools
 - Adaptive Leadership and personal resilience
 - Data system design and outcome measurement
 - Teamwork, project management tools, change leadership



Learn. Do. Share. Sustain.

- Cross-sectoral & interdisciplinary
- Team leads and team members across all organizational levels
- No tuition/registration fee
- Share, sustain and... **SPREAD!**



Advanced Learning Program

- Participants
 - Individuals leading QI projects related to health system priorities (e.g. high-needs populations, QBPs, Health Links)
 - Physicians with administrative and clinical responsibilities
 - Nurses, RPNS, nurse practice leaders, nurse practitioners
 - Pharmacists, physiotherapists, other interdisciplinary health professionals
 - Clinical or non-clinical administrators
- Up to four participants can apply per team
 - We encourage teams (2 or more participants) to apply

What's in it for me?

- Looking to improve a quality outcome
 - E.g. falls prevention, reduce restraint use, reduce avoidable ED visits, etc.
- More effective change, more sustained improvement

Examples of IDEAS Projects from LTC

- By December 2014, there will be a 50% reduction in the administration of PRN antipsychotic medications in a specialized care unit
- By October 31, 2014, we will reduce the amount of duplication in completing the nursing admission process by 25% for new long term admissions.

For examples of IDEAS projects visit:

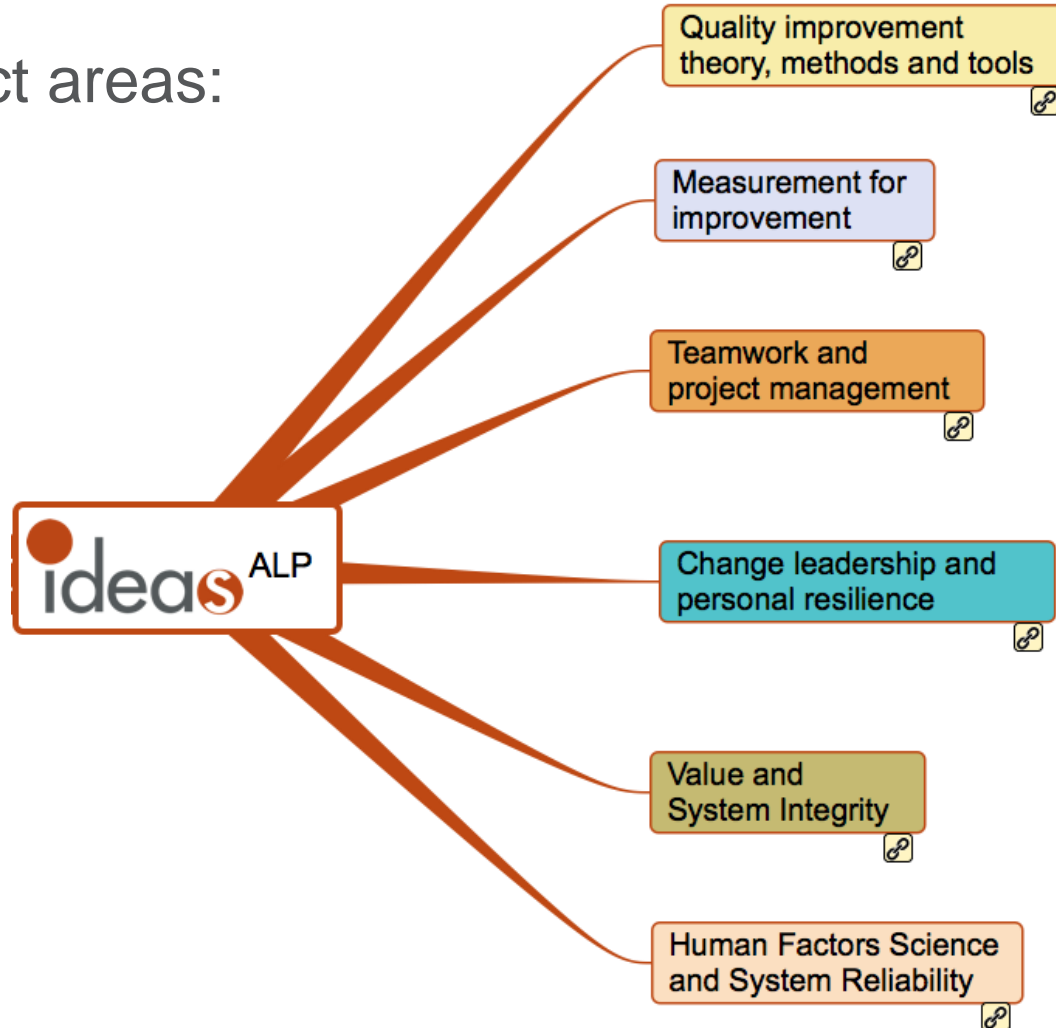
<https://ideaslearningplatform.com/project-repository/index.htm>

IDEAS CURRICULUM PRINCIPLES



IDEAS Advanced Learning Program

Core subject areas:



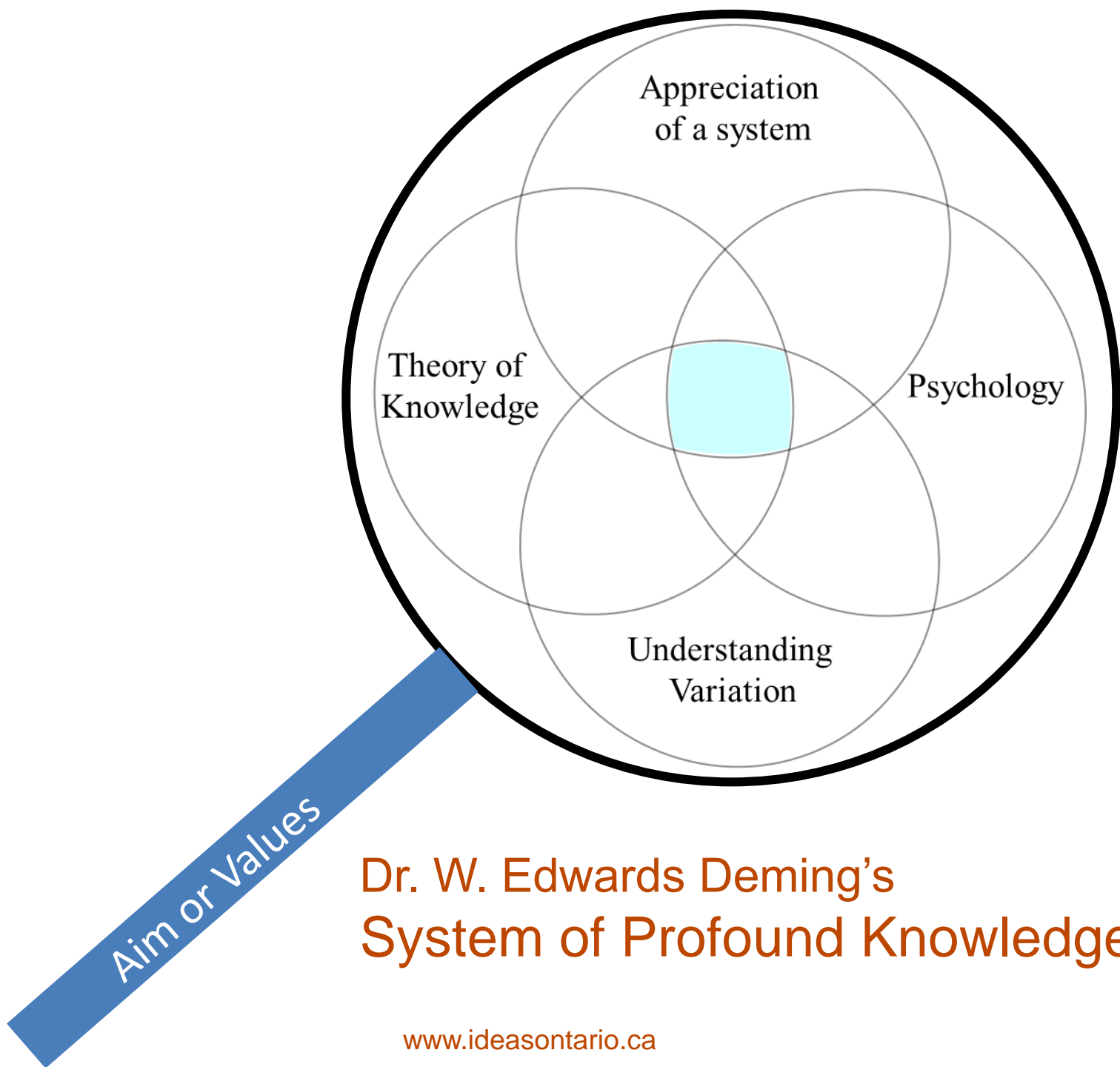
Subject matter knowledge



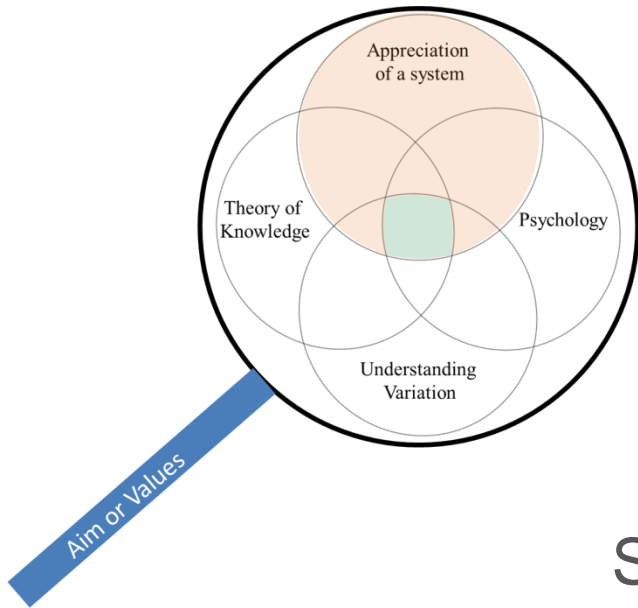
**Increased
Capability to
Make
Improvements**

Profound Knowledge





Dr. W. Edwards Deming's System of Profound Knowledge



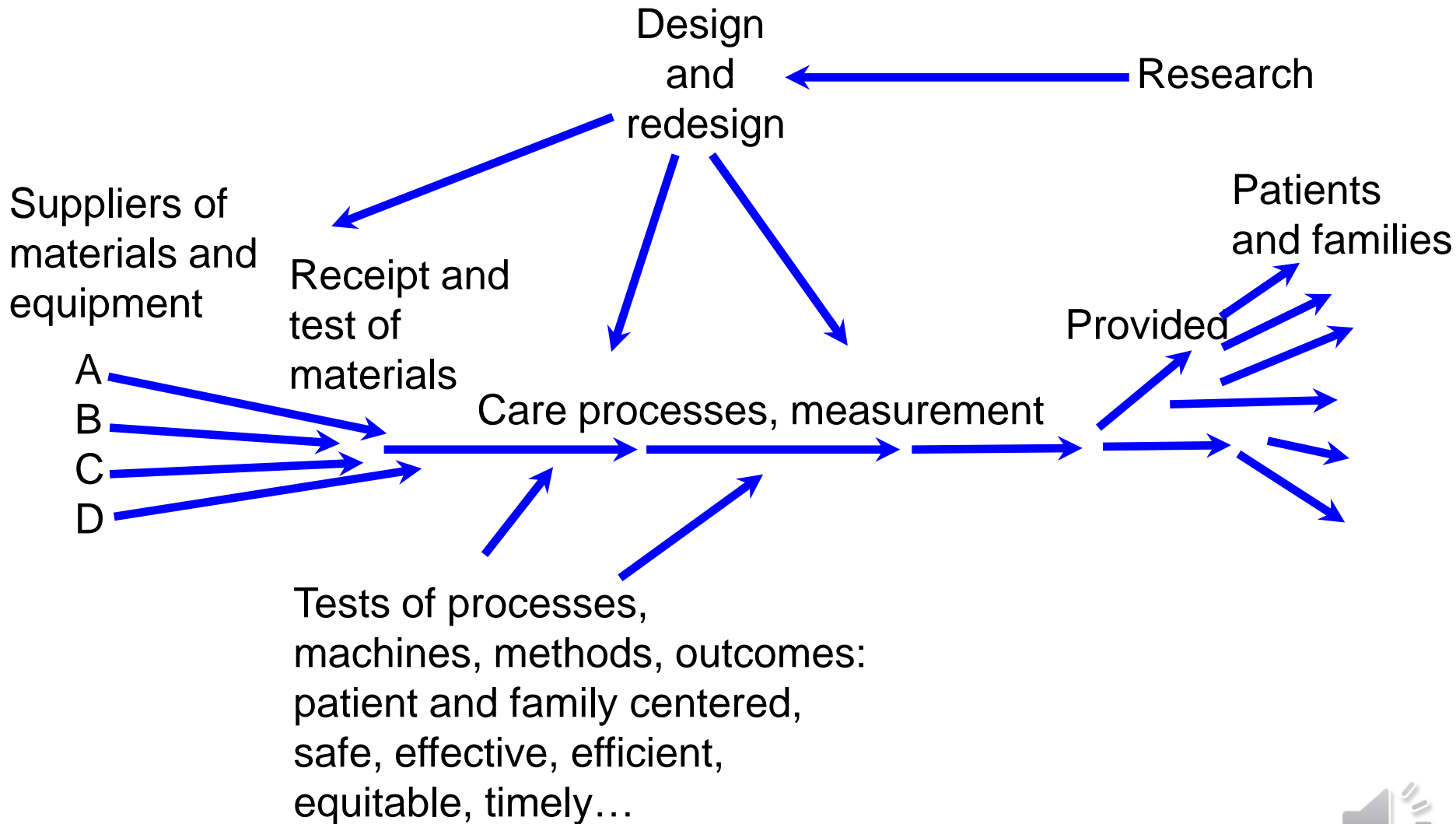
Appreciation of a system

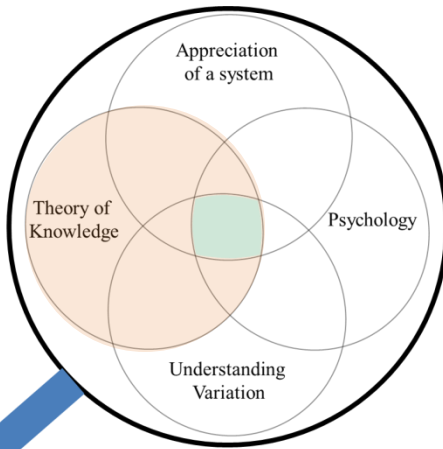
Systems Thinking:

A system is an interdependent group of items, people or processes working together toward a common purpose.

Care viewed as a system

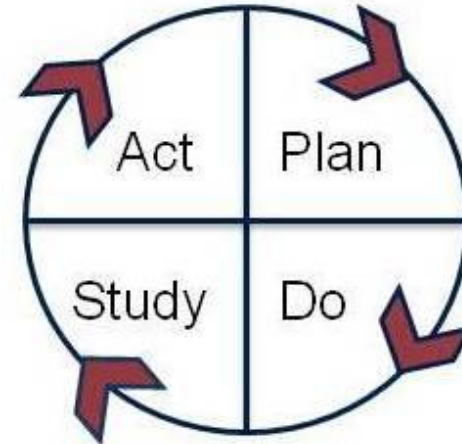
Based on Deming's *Production viewed as a system*



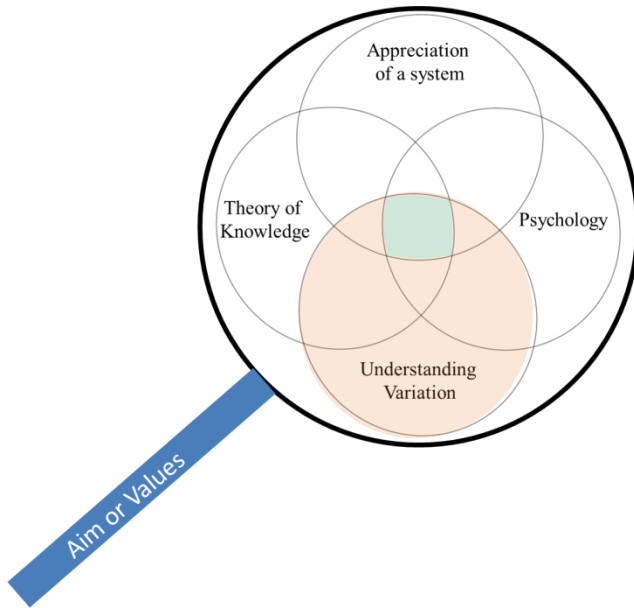


Theory of knowledge

When change is tested,
comparing predictions to
results, to **build knowledge**



Aim or Values



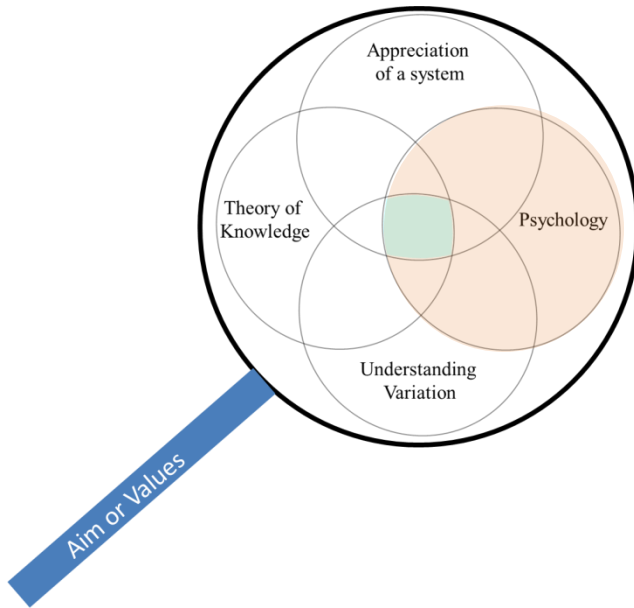
Understanding variation

All systems demonstrate variation of two types:

1. Common cause
2. Special cause



Improving & Driving Excellence Across Sectors



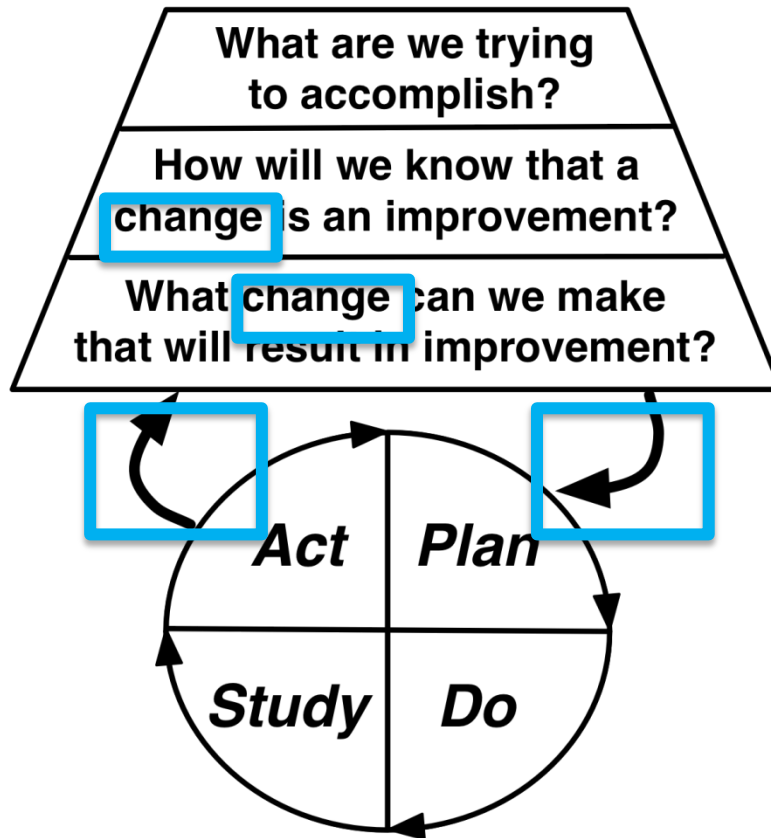
Psychology

*The human side of
work and change*

CHANGE: SOURCES AND IDEAS



Model for Improvement



Change:
the key to
improvement

Langley, Nolan, Nolan, Norman, Provost;
The Improvement Guide, 1996



Evidence

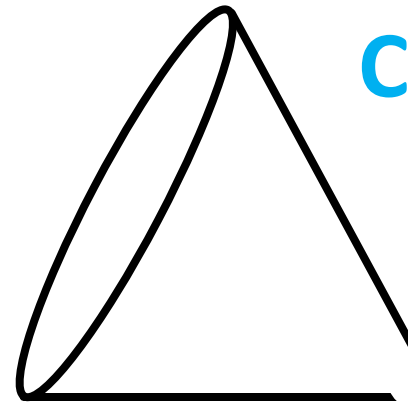
Experience

Current State

Concepts

Change

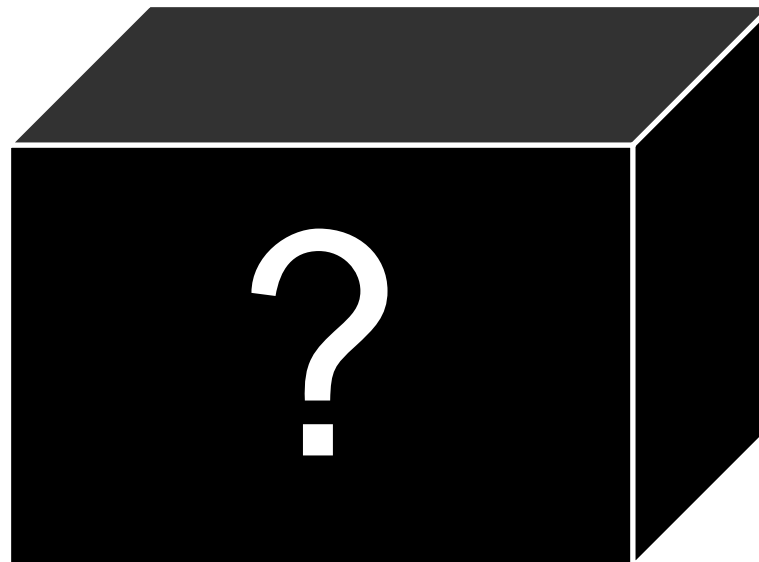
Creativity



IMPROVEMENT LEARNING STRUCTURE: DRIVER DIAGRAM

Why Use a Driver Diagram?

Improvement
Aim



A new
process,
system,
culture...

Effective change is
not a “black box”.



Driver Diagrams help answer planning questions, like:

- HOW could we achieve our aim?
- What are ALL the changes?
- Are there priorities (emphasis)?
- Are there alternatives?
- What is the sequence?
- Who will do what when?

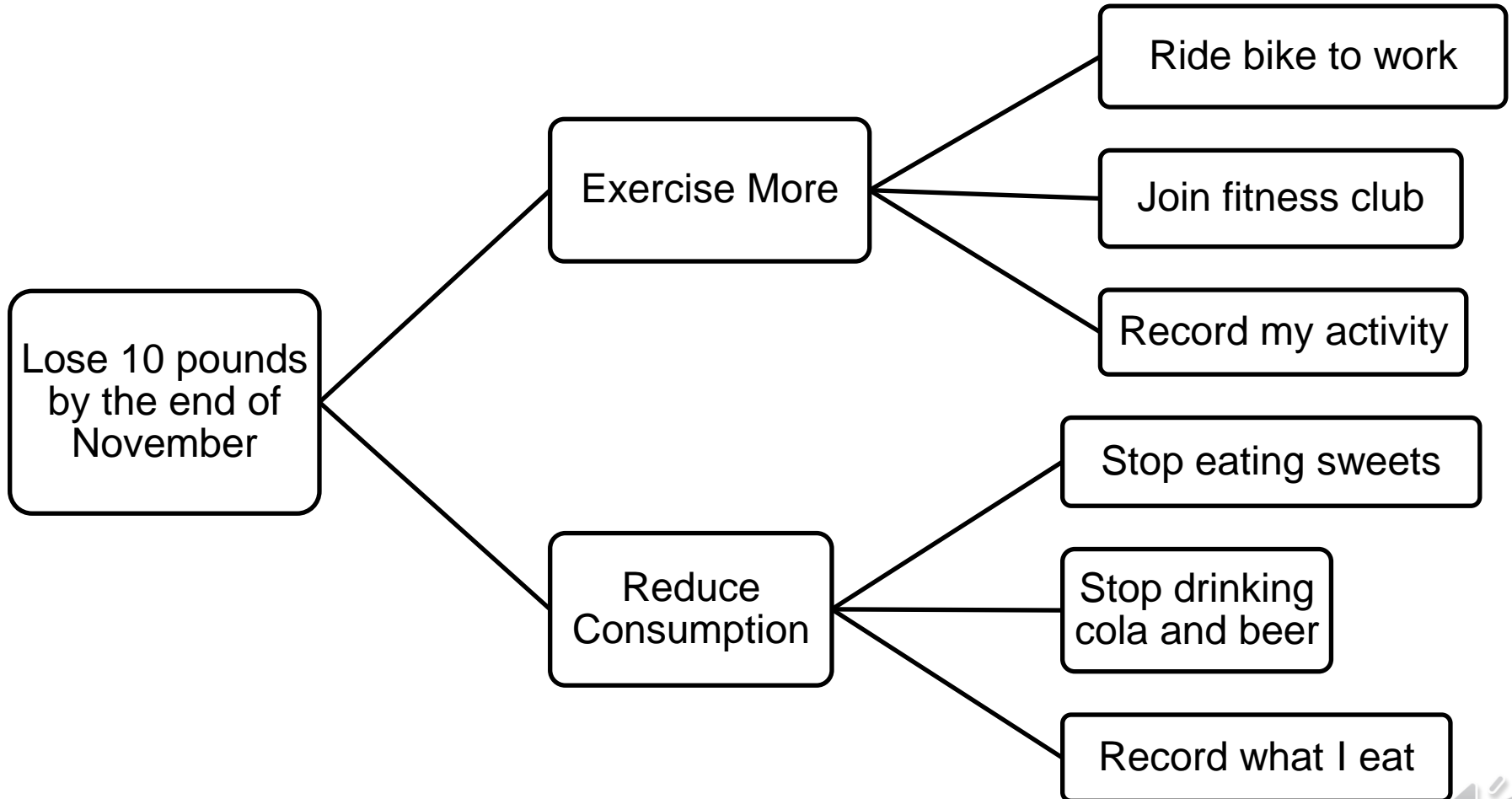


What is a driver diagram?

- A means of developing your theory of how you will achieve your aim.
- Breaks down your improvement work into a plan of organized change: development, testing and implementation.



A simple example



Healthcare QI example

Reducing harm from pressure ulcers

AIM

Eliminate new Grade 3 and 4 pressure ulcers by 31 March 2014

Reduce the number of Grade 2 pressure ulcers acquired under our care by% by 31 March 2014

Reference: East London NHS Quality Improvement Programme

PRIMARY DRIVERS

Risk identification

Risk assessment

Reliable implementation of SSKIN care bundle

Identification, grading of pressure ulcers

Education

SECONDARY DRIVERS

Understand pressure ulcer risk factors

Analyse local data to assess patients at risk

Assess pressure ulcer risk on admission

Reassess regularly

Communicate risk status

S – Surface
S – Skin inspection
K – Keep moving
I – Incontinence
N - Nutrition

Use national grading tool

Utilise local tissue viability nursing expertise

Initiate and maintain correct and suitable treatment

Staff education – using workbooks, How-To guides, and patient stories

Patient and family education – information on pressure ulcer risk and how to minimise whilst in hospital / at home



How to construct

1. Clarify your SMART aim statement.
2. Identify change concepts and ideas
3. Group and organize ideas under themes or primary drivers (concepts).
4. Draw, review, and revise regularly.



Change ideas - sources

- Evidence
- Experience: patients, families, staff
- Current process, situation
- Change concepts
- Creativity
- Demonstrated improvement elsewhere
-



Learning Exercise

Part 1

10 minutes:

- Put your aim on the worksheet (brief paraphrase is OK)
- Using small sticky notes, brainstorm all the change ideas (remember sources – identify where there *is evidence*)



this is where you put your words - BIG

Change idea

Change the way this

this is where you put your words - BIG

like any brainstorm - avoid discussion

new item - brainstorm, keep them coming

this is where you put your words - BIG

stop when the team stalls out (can always add)

no one-word items - give them meaning

another item to add - four to seven words

no one-word items - give them meaning

another item to add - four to seven words

new item - brainstorm, keep them coming

build on items, add anything, even "similar"

can start with round, everyone adds one note

build on items, add anything, even "similar"

can start with round, everyone adds one note

no one-word items - give them meaning

another item to add - four to seven words

new item - brainstorm, keep them coming

post on the wall or flipchart for all to see

stop when the team stalls out (can always add)

post on the wall or flipchart for all to see

can start with round, everyone adds one note

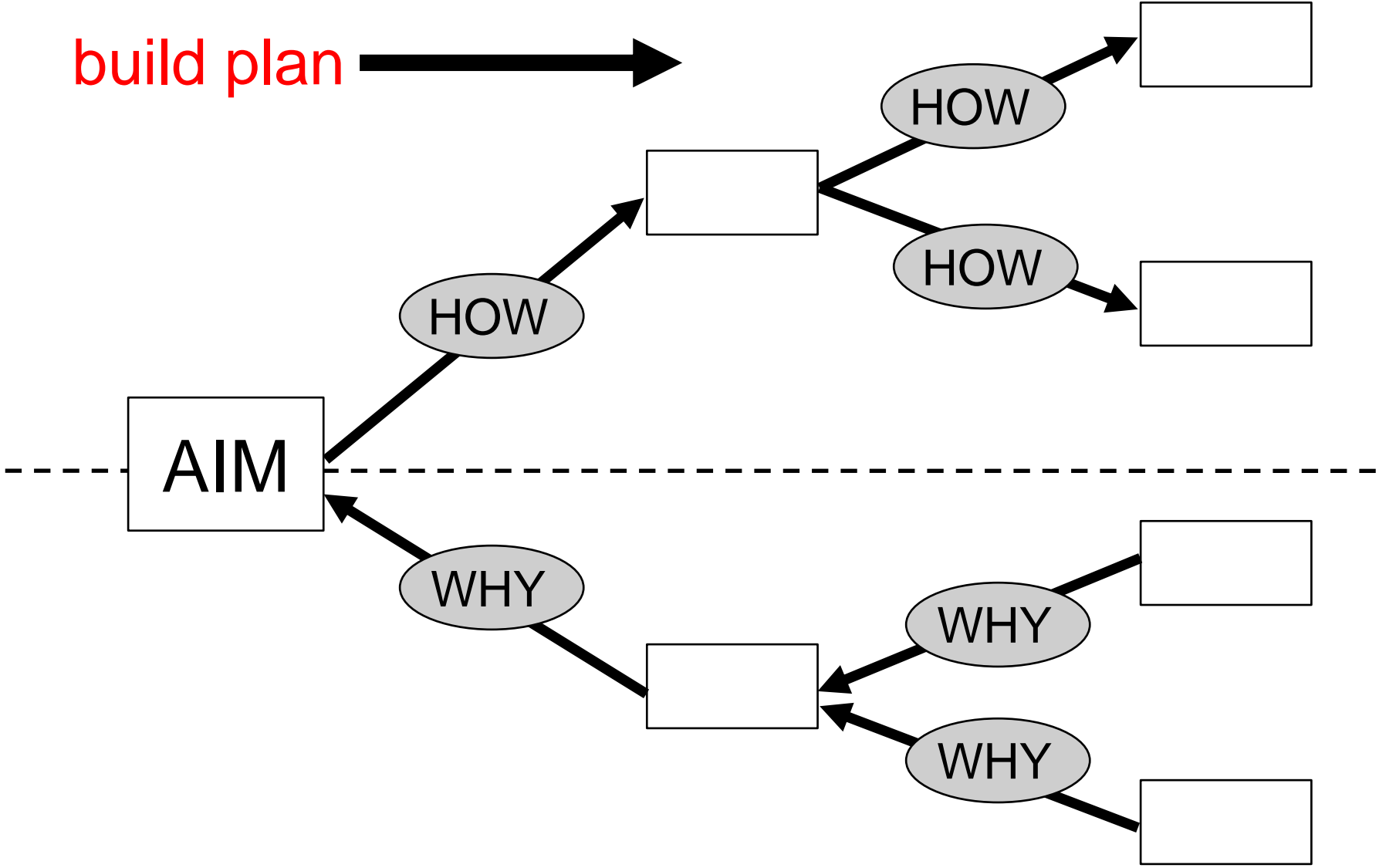
post on the wall or flipchart for all to see

build on items, add anything, even "similar"

stop when the team stalls out (can always add)



build plan



check plan



Learning Exercise

Part 2

10 minutes:

Use the worksheet to organize your ideas into:

Primary Drivers: Theme or concepts (ask How to get specific ideas)

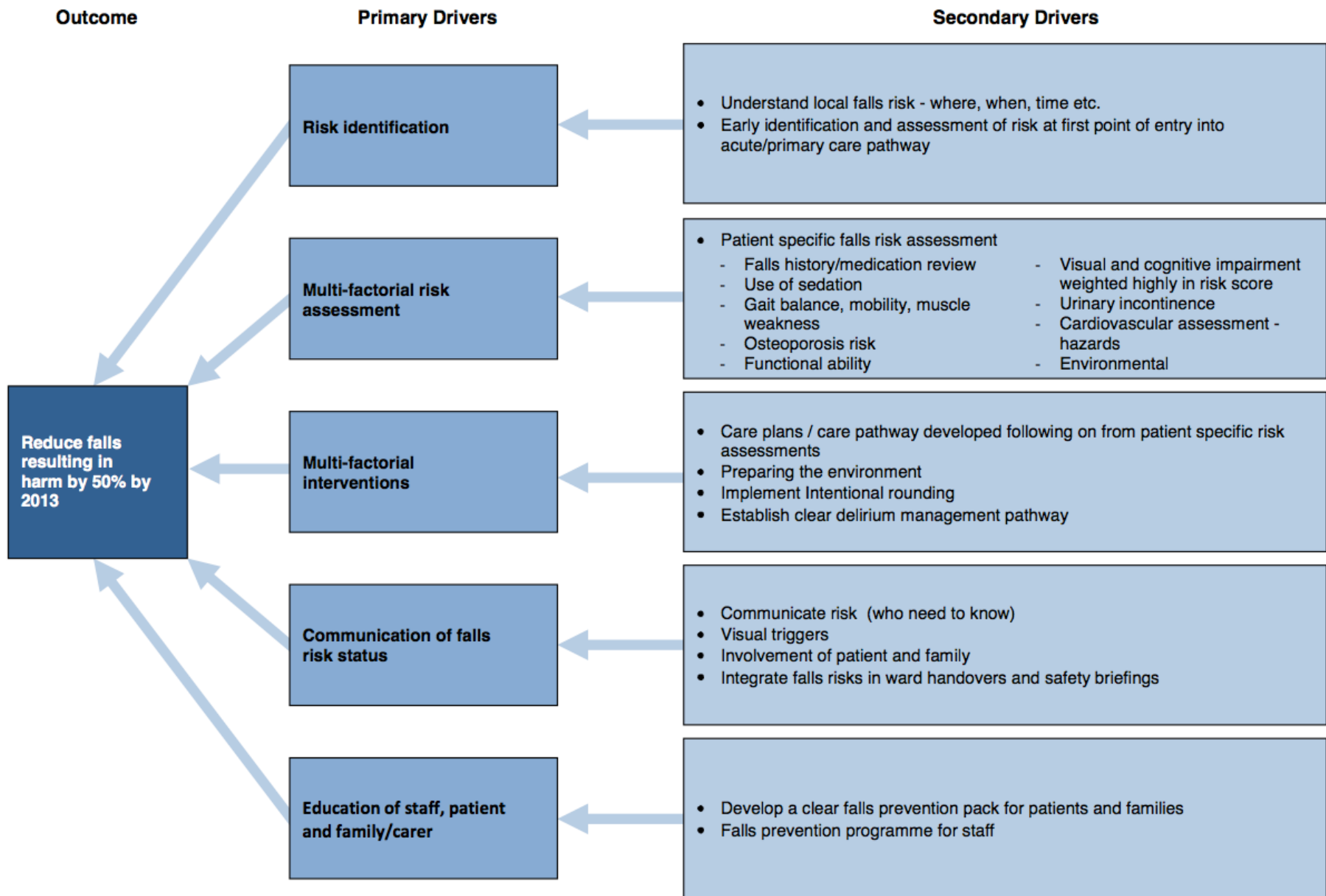
Secondary Drivers: Specific ideas (ask Why to link to primary)

Add more, refine and begin to draw out.



Aim, outcome measures	Primary, Themes, Concepts, process measures	Secondary, specific change ideas, application of concepts	Assignment; Tests of change, Plan-Do-Study-Act cycles
<p>HOW -></p> <p>[Empty box]</p> <p><- WHY</p>	<p>HOW -></p> <p>build on items, add anything, even "similar"</p> <p>?</p> <p>new item - brainstorm, keep them coming</p> <p>post on the wall or flipchart for all to see</p> <p><- WHY</p>	<p>HOW -></p> <p>change idea</p> <p>post on the wall or flipchart for all to see</p> <p>new item - brainstorm, keep them coming</p> <p>where you words -</p> <p>no one-word items - give "mea</p> <p>this is where you put your words - BIG</p> <p>another item - four to words</p> <p>can start with round, everyone adds one note</p> <p>another item to add - four to seven words</p> <p>stop when the team stalls out (can always add)</p> <p><- WHY</p>	<p>[Empty]</p>





- Care plans / care pathway developed following on from patient specific risk assessments
- Preparing the environment
- Implement Intentional rounding
- Establish clear delirium management pathway

- Consider frequency
- Modify checklist to appropriate situation
- Educate carer's in own environment
- Consider telephone checks
- Implement hourly intentional rounding for high risk patients in inpatient settings
- Use of specialising

Ideas to develop/test





Creativity





ALTERNATIVES

Alternatives require connections

Idea

rowboat

“fixed point”

way to cross
a river

Alternative

bridge



Practice

“fixed point”

Idea

Alternative

Credit card

Glass

Fan



Fixed points are important and not random

Idea	“fixed point”	Alternative
Dog	Pet	Hamster Bird Cat
Dog	Security	Alarm Neighbor Lighting

Concept are useful “fixed points”

- A concept is a general idea
- Ideas and concepts on a continuum
- Concepts are keys to more ideas (alternatives)

Change Concept

- A change concept is a general idea for change.
- Use change concepts to develop specific process changes in a local context.

Using Change Concepts to find more Change Ideas

1. Concept Triangle
 - Using ideas to breed more
2. Using Provided Change Concepts

○ Stand instead of sit (20%)

○ Take stairs not elevator

More active
daily routine

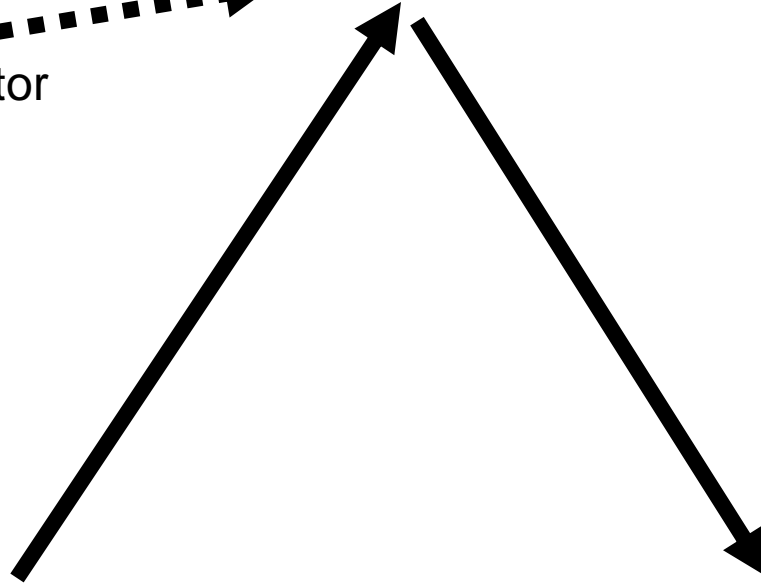
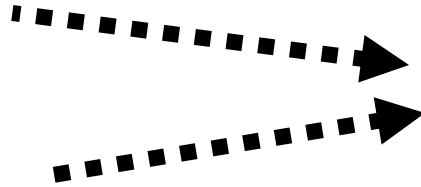


Walk to work



Focus

Personal:
Weight Loss



○ Go for walk at lunch break

○ Wear a pedometer

More steps taken
each day



Walk to work

Focus

Personal:
Weight Loss



○ Keep a daily log of activity

○ Use app for mobile phone

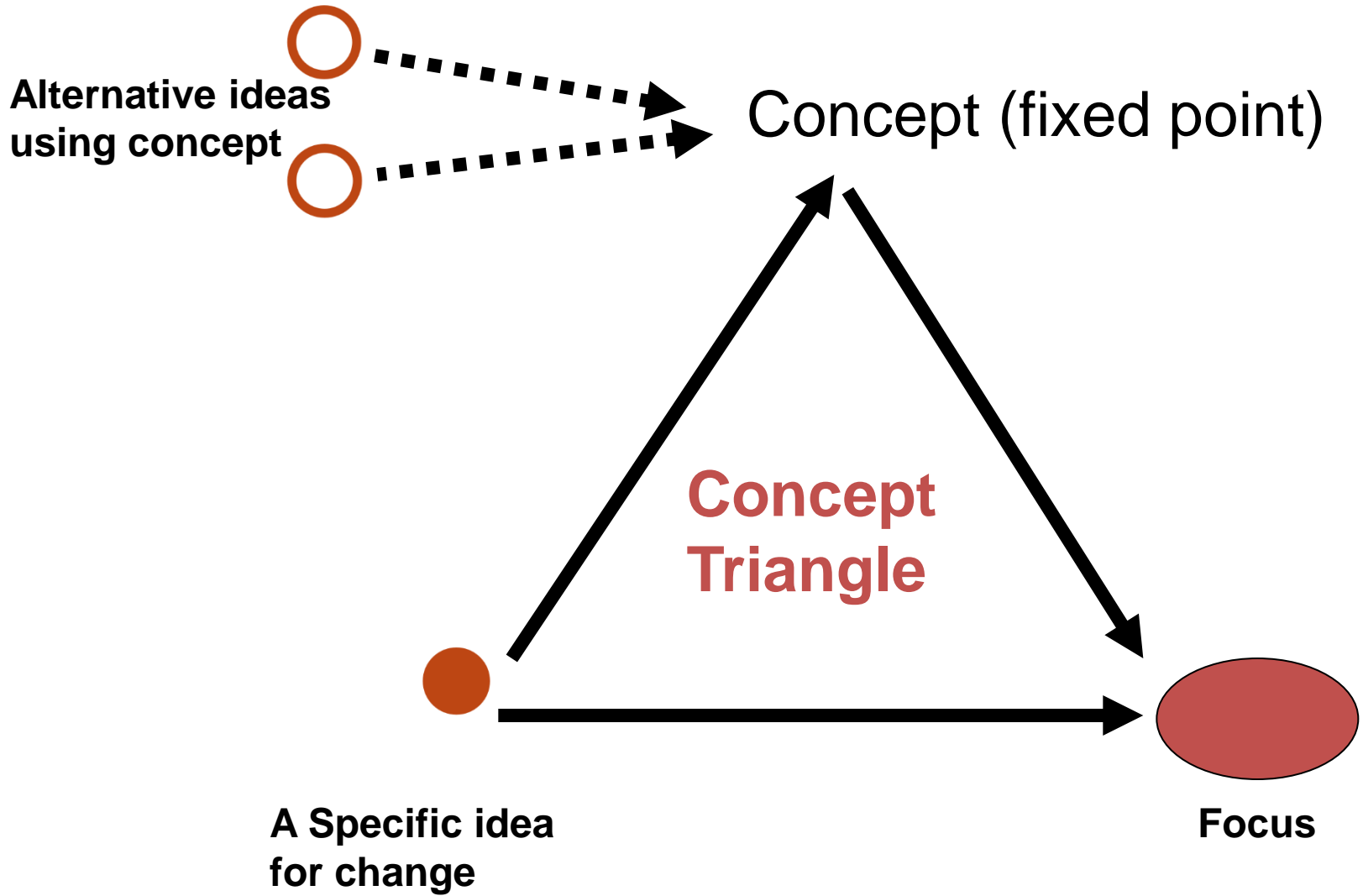
Measure to
increase activity

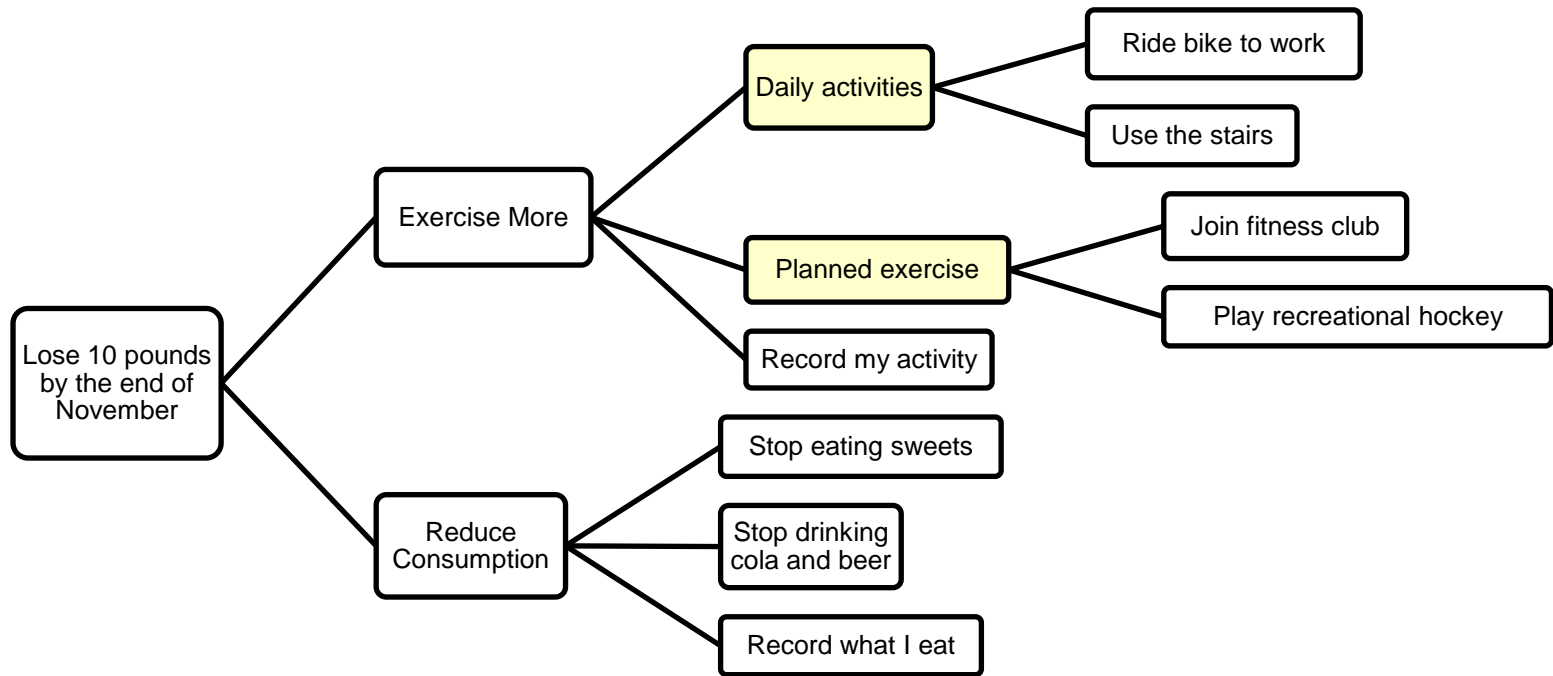
●
Wear a pedometer

Focus

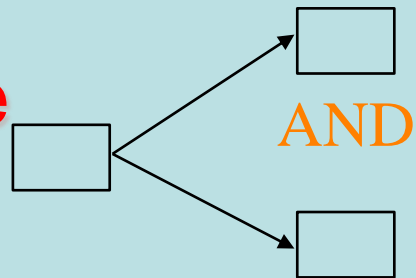
Personal:
Weight Loss



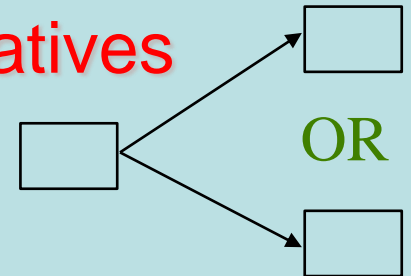




Make your plan **complete**



Identify **alternatives**



Lateral Thinking 

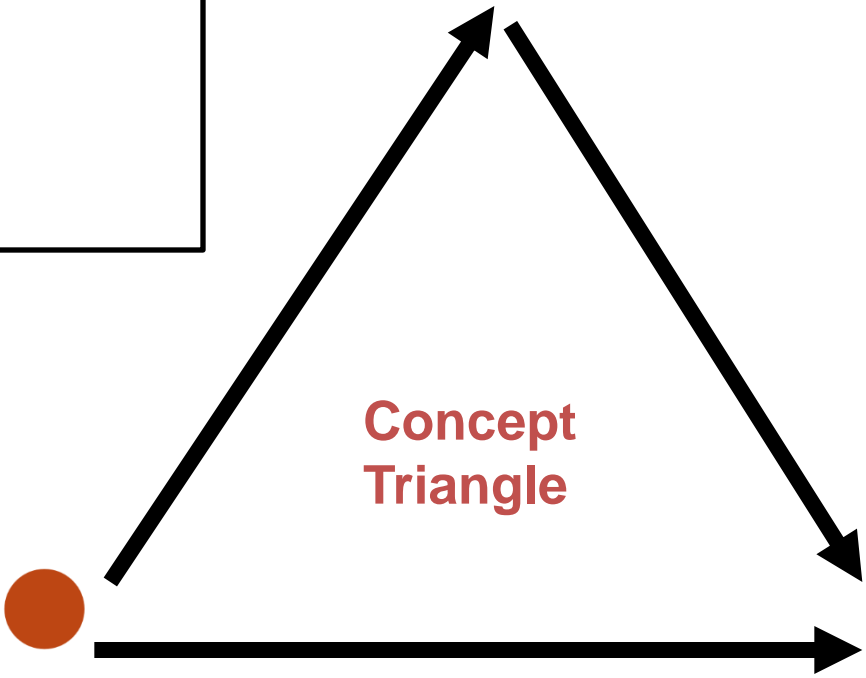
Alternatives ideas using concept:

More comprehensive fall investigation

Concept Triangle

Use a checksheet to guide review factors

Improve post fall huddles



Alternatives ideas using concept:

Everyone knows the method and expectation

Concept Triangle

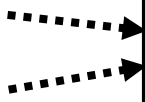
Provide a training session on huddles

Improve post fall huddles



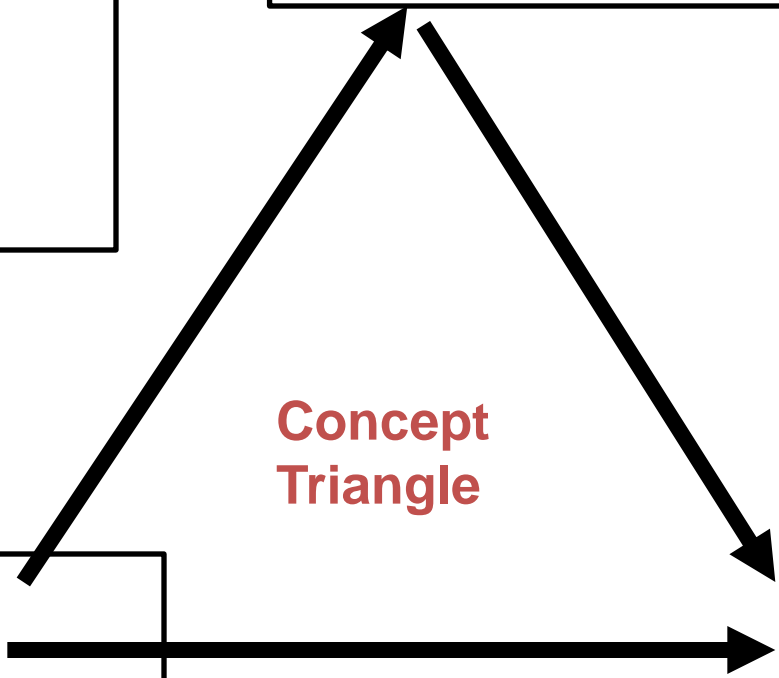
**Alternatives ideas using
concept:**

a concept:



**Concept
Triangle**

Your idea:



**Improve post
fall huddles**



**Alternatives ideas using
concept:**

a concept:

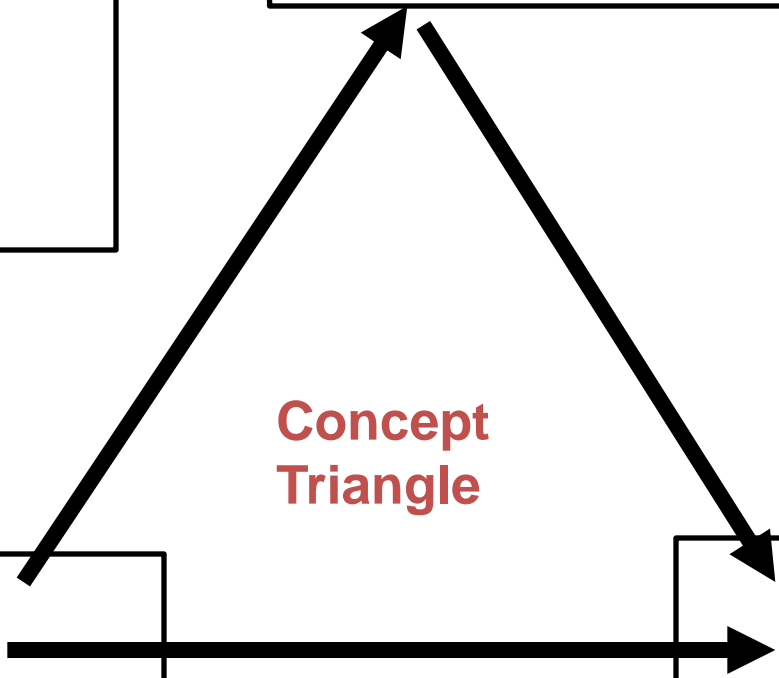


**Concept
Triangle**

Your idea:



Your focus:



Questions to help you to *EXTRACT* a concept.

Purpose Concepts

What are we trying to do?

What is the purpose of the action or operation?

Mechanism Concepts

How does it work?

How is the purpose achieved?

What is the operating mechanism?

What is happening?

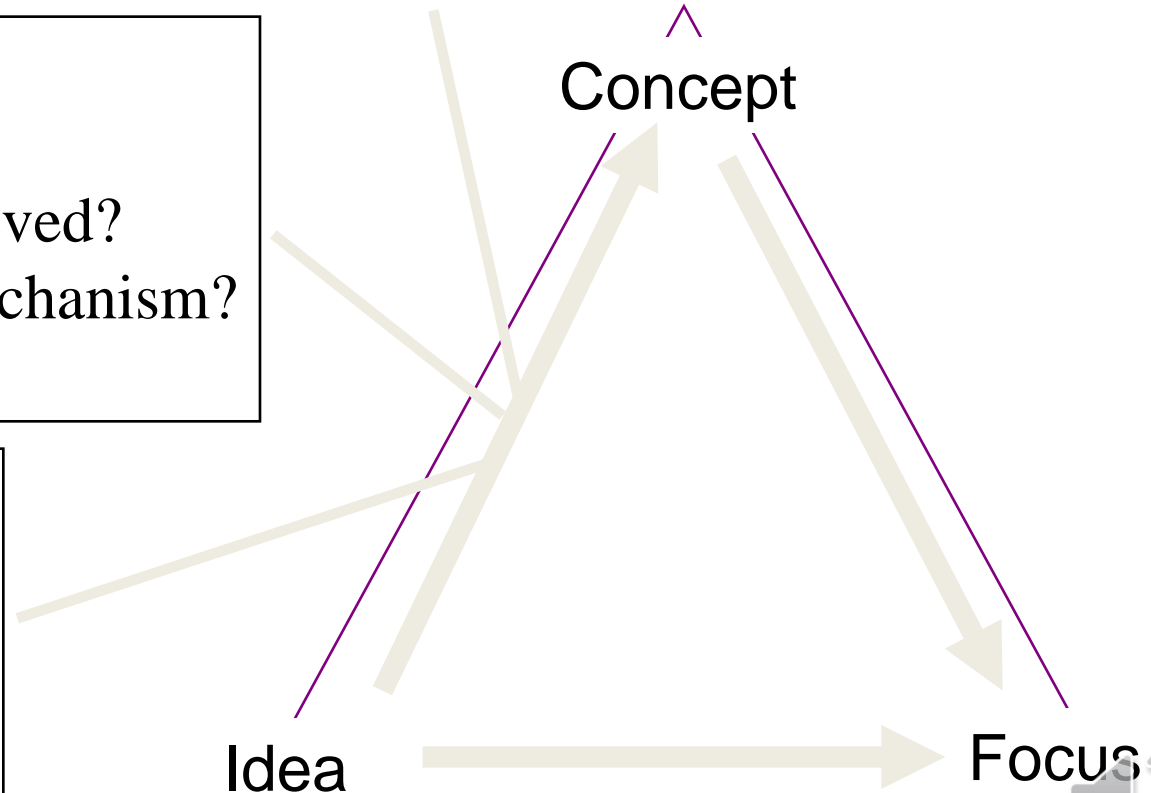
Value Concepts

Why is it useful?

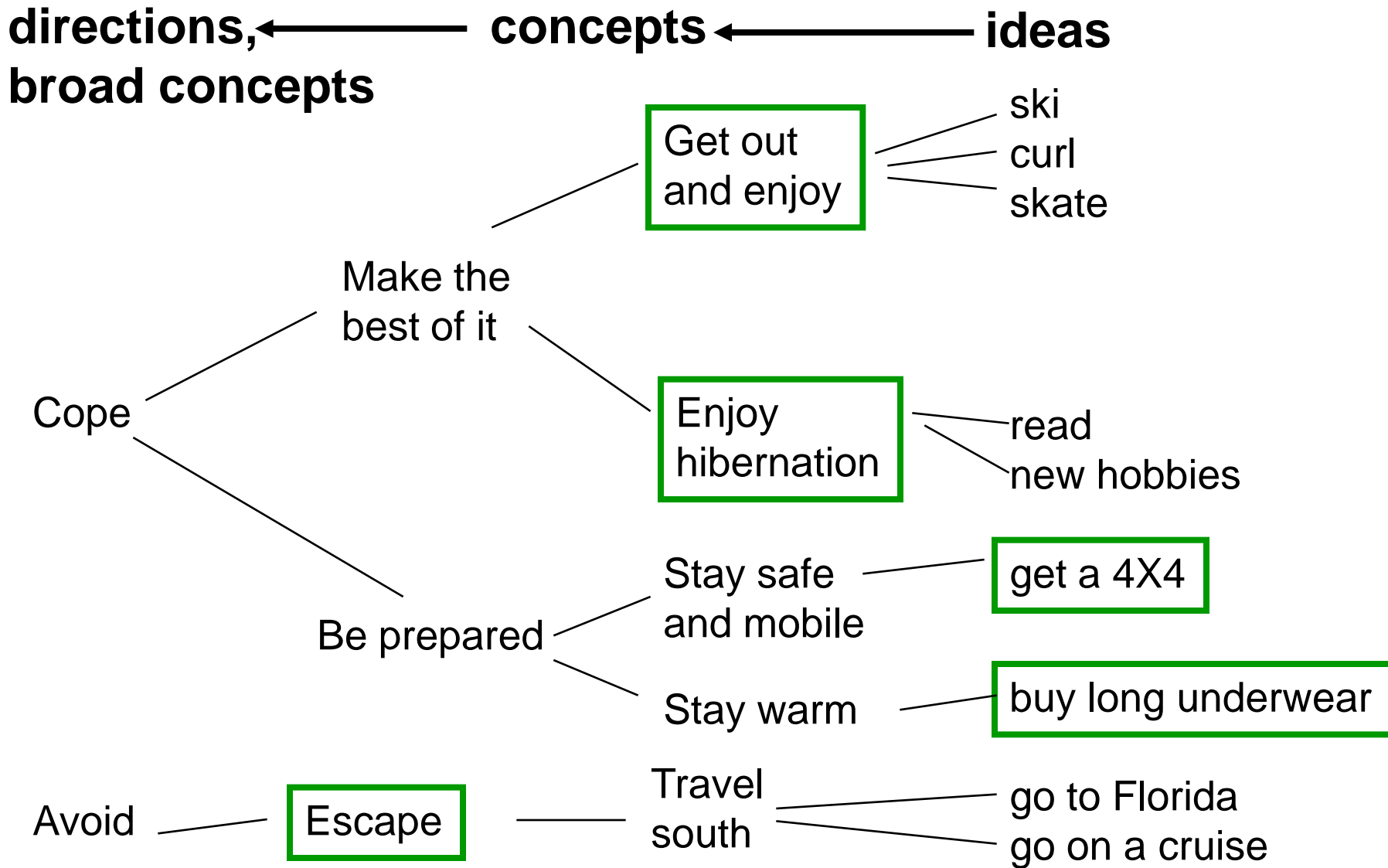
What does it provide?

Where is its value?

Why is this worthwhile?



Better ways to cope with the Canadian Winter



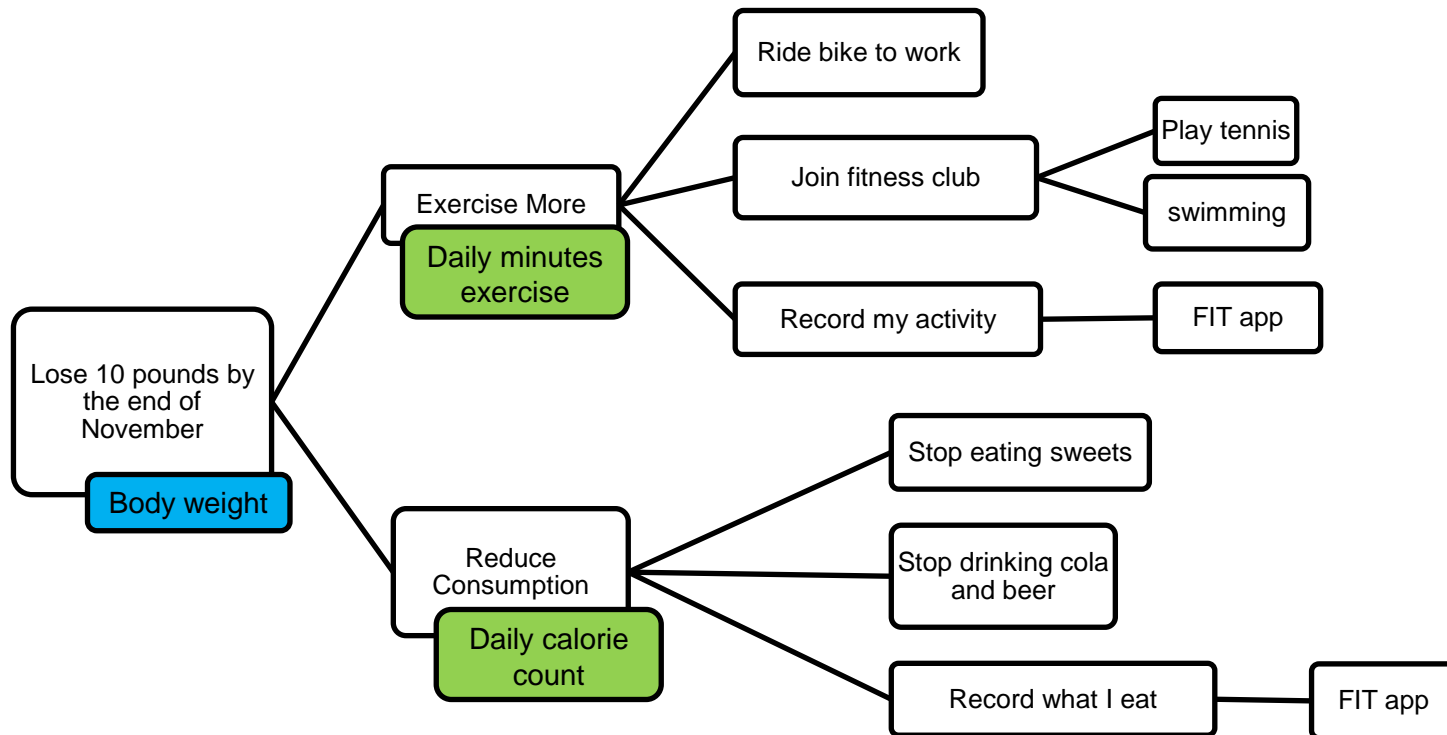
A 'remote' example to illustrate how to multiply ideas by identifying concepts behind the ideas and then asking 'what are the other ways we could achieve the concept?'

Concept Thinking

- Strengthen your Driver Diagram with better thinking
- No leaps of faith, show the mechanism, purpose or value



Integrate Measurement



Outcome

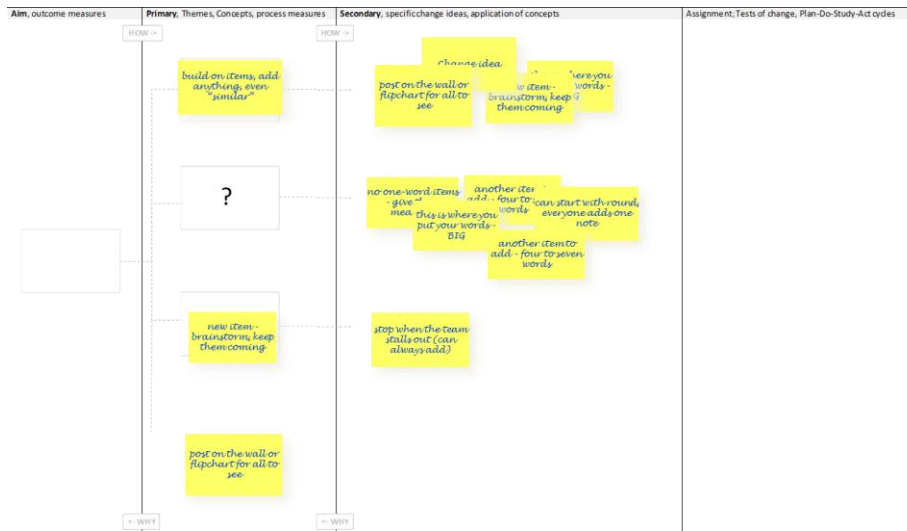
Process



Learning Exercise Part 3

Find three points to measure.

Identify points you may need alternatives.



LATERAL THINKING



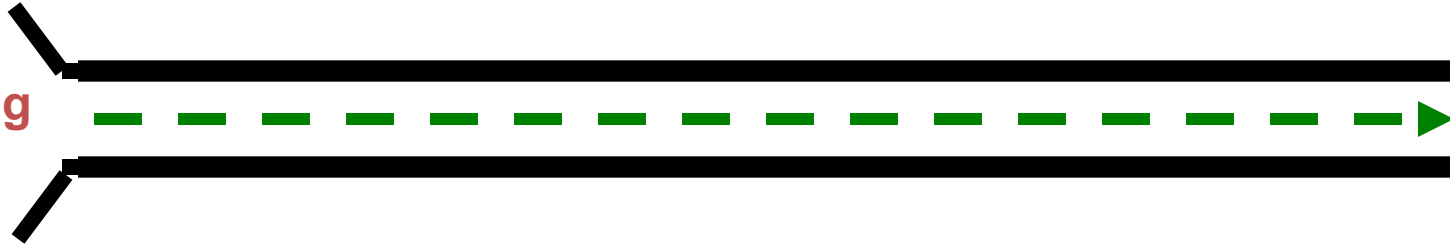
Random Entry

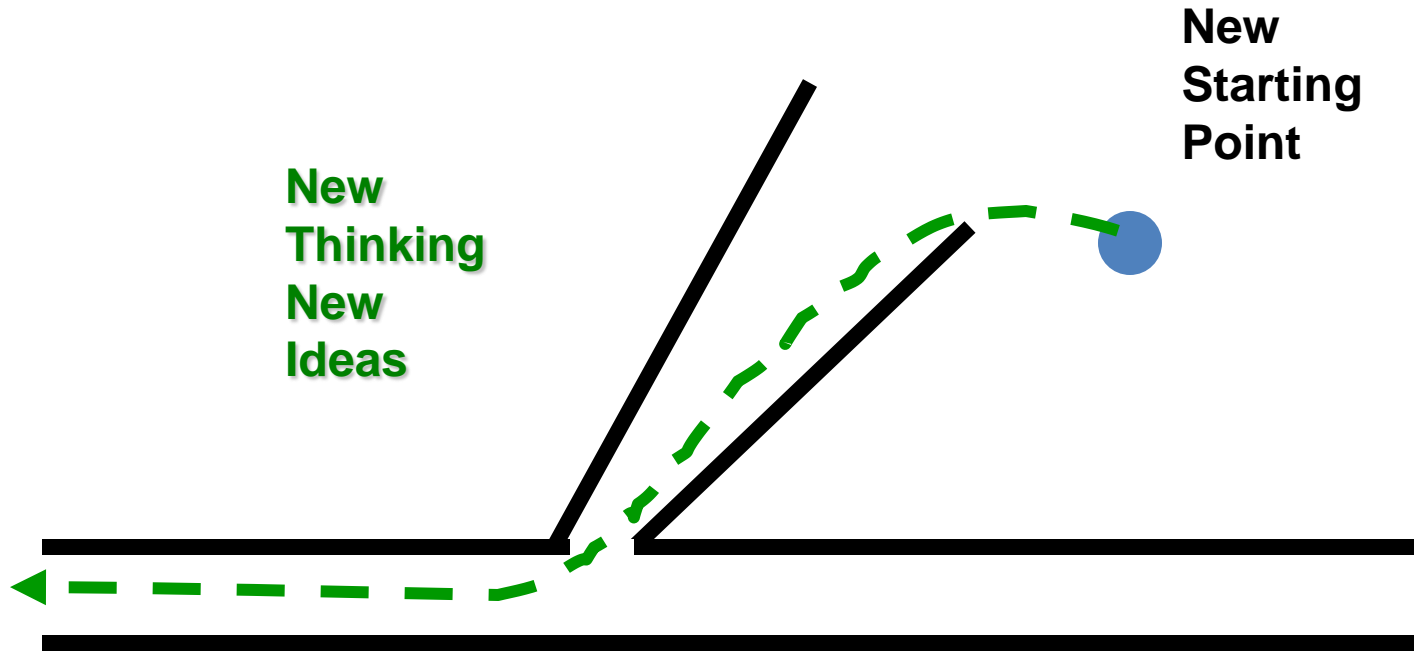
- Deliberate act to cut across established patterns
- Words hold many concepts and are a convenient way to get a new starting point
- Other 'random' stimuli can be used



Starting
point

Same
old
ideas





thermostat

Keeps temp constant

on the wall

can set easily

change by time of day

device to signal turns

lights on the wall like planes

lighted signs to guide

map drawing system at entrance

you start the 'path light' to guide you

when clinic on, special guidance

simple layout with convertible space

Focus:

Way finding in hospitals

Random Entry



Ideas

Random Word

coal

association
principle
function
mechanism
directions
combinations

Focus

Prevent kids
starting to smoke

underground

mine

black lung disease

limited resource

- Form an anti-smoking 'underground'
- Must smoke in underground rooms
- Make cigarettes hard to get
- Need a permit to buy
- Mine the ideas of kids
- Must study diseases before getting permit
- Begin paying 'smoker's compensation'
- Ration the permits
- Progressively impose limits on growing and importing



Ideas

Random Word

(from the word list)

What comes to mind
when you think
of this word?

Focus

What do you need
new ideas on?

**New ideas to
prevent
missed
appointments**



Random Word

(from the word list)

What comes to mind
when you think
of this word?

Focus

What do you need
new ideas on?

Ideas

CribNotes and random word list (12 x 60) provided



POSSIBLE NEXT STEPS



Apply Now

Final Advanced Learning Program of 2014/15
begins in January.

Application deadline: **November 14, 2014**

www.ideasontario.ca

References

1. de Bono, Edward, *Serious Creativity*. Harper Perennial: Toronto, 1992.
2. Langley, Gerald J., Kevin M. Nolan, Thomas W. Nolan, Clifford L. Norman and Lloyd P. Provost, *The Improvement Guide*. Jossey-Bass: San Francisco, 1996.
3. Patterson, K. et al. (2007) *Influencer: The power to change anything*. Mc-Graw Hill.