

The FHS  
Musculoskeletal  
Innovation  
Factory



Western  
HealthSciences



**MSK-IF**

# Faculty of Health Science



Research Enrichment Plan

# BIG IDEAS

... begin here.



Western  
HealthSciences



# **MSK-IF integrates all four FHS research priorities:**

- 1. Mobility**
- 2. Health Equity & Social Inclusion**
- 3. Health Research in a Digitalized World**
- 4. Transformative Health Care**

**Western goals to:**

**Promote A Healthy Future, A Just & Equitable Future,  
and A Technology-Informed Future..**

Triple Aim  
2007

1. Improved Patient Experience
2. Better Outcomes
3. Lower Costs

Quadruple Aim  
2014

4. Clinician Well-Being

Quintuple Aim  
2021

5. Health Equity

Better Health

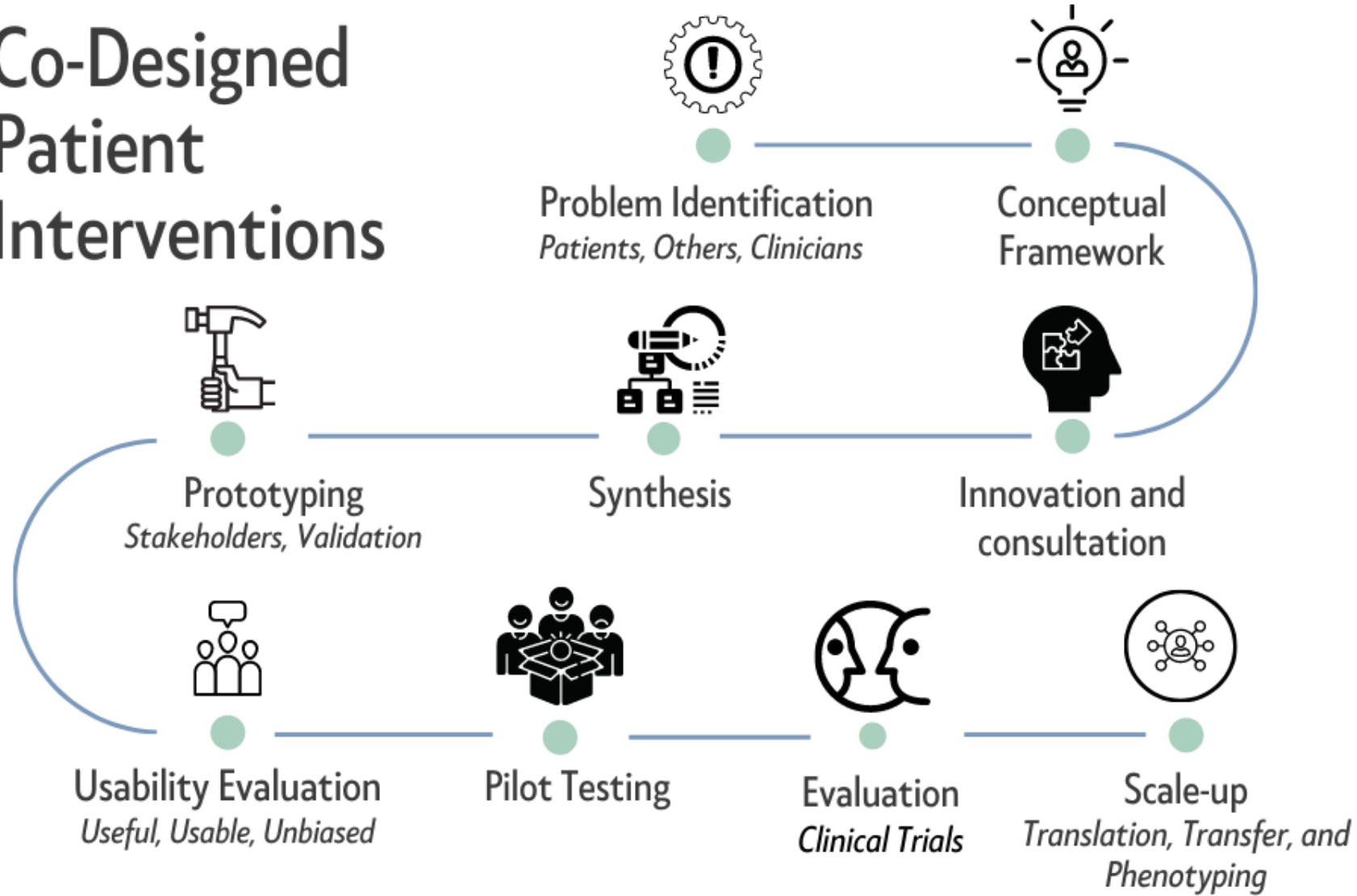
Improved Economy

# Goal: to solve patient and front-line clinical problems in MSK health through co-design; and achieve efficient implementation

- Useful
- Useable
- Unbiased

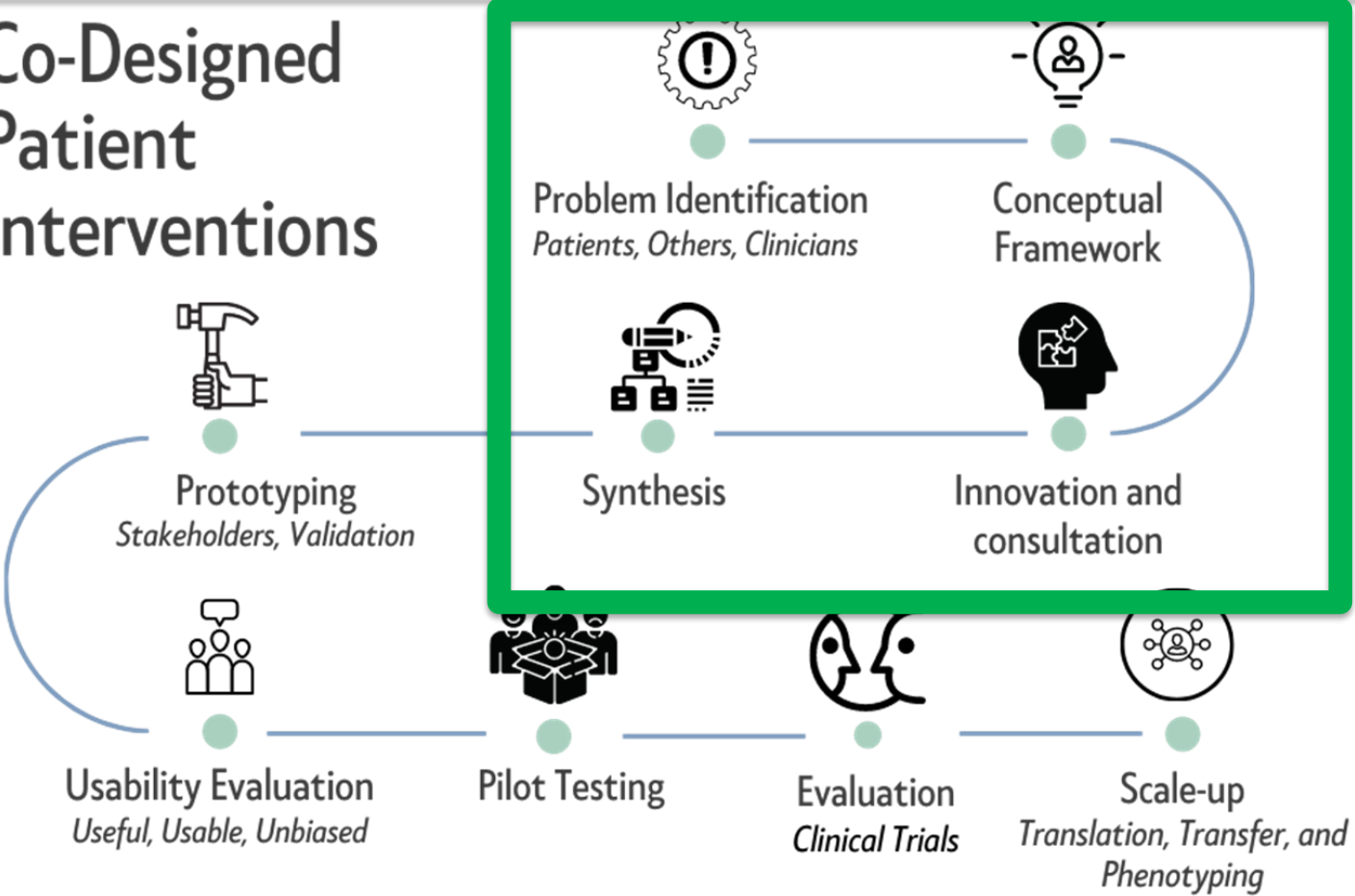


# Co-Designed Patient Interventions



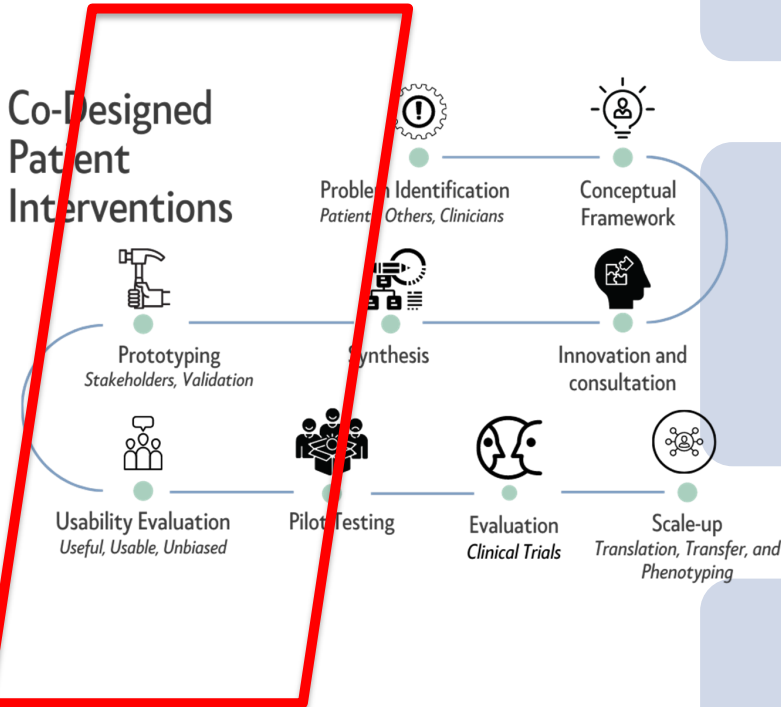
# MSK-IF launches innovations- helps investigators attract external funding for clinical research

Co-Designed Patient Interventions



Investigator seeks independent funding





Inputs to proposal followed by independent adjudication

- Patient Advisory Committees
- Consultation with Front-line Clinicians
- Formal Priority Setting exercises
- Qualitative Research
- Surveys of Patient Preferences



Innovation and Consultation to engage others

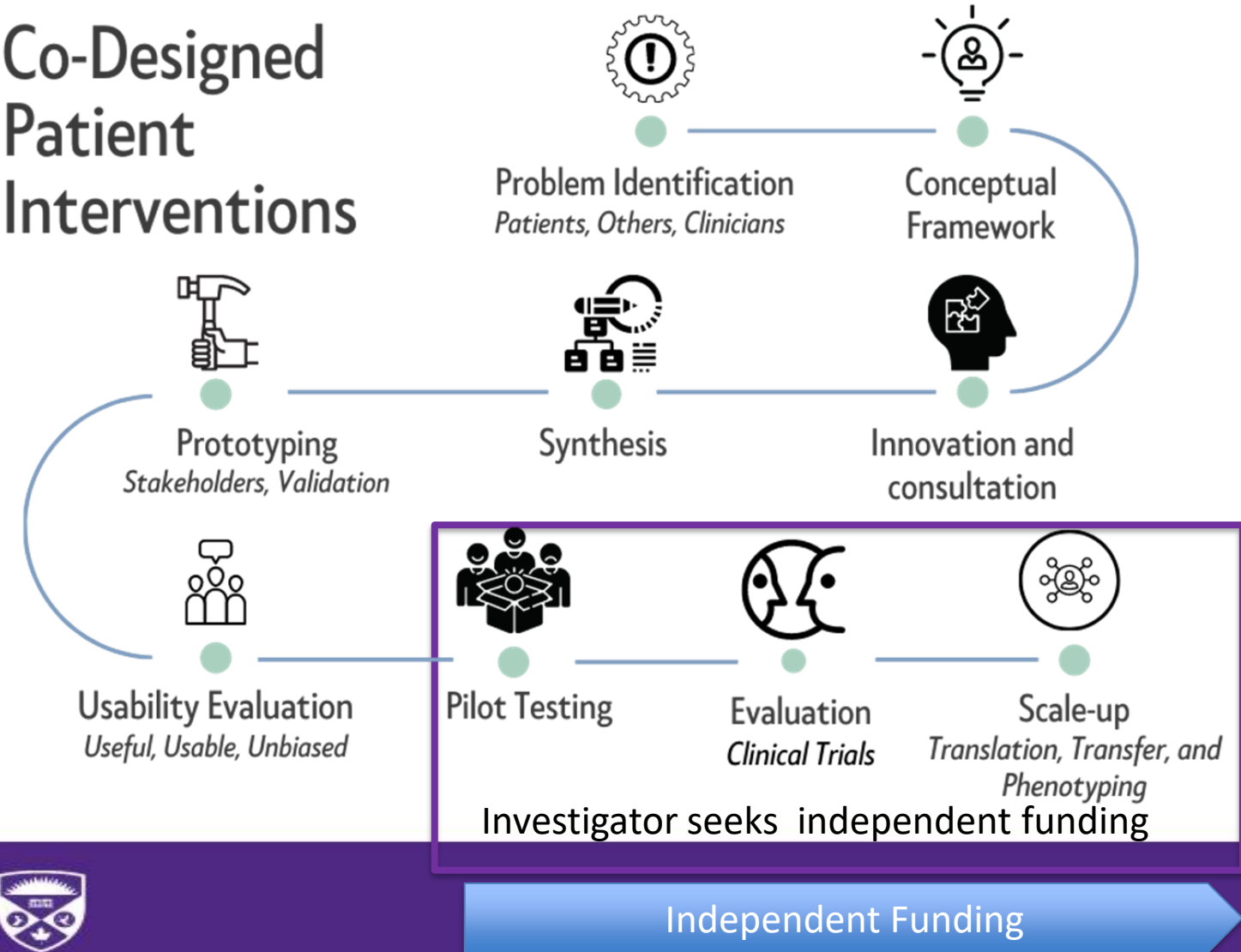
- Think Tanks
- Web Forums
- Shared graduate trainees



Clinical Partners

- The Fowler Kennedy Sport Medicine Clinic,
- The Hand and Upper Limb Centre,
- Victoria Hospital Spinal Program
- Joint Arthroplasty Group

# MSK-IF launches innovations- helps investigators attract external funding for clinical research



## What we do

- develop prototypes ready for feasibility/useability evaluation in MSK clinical practice
- 1 hour free consults on related technology related experience
- Provide technical support to projects aligned with mission
- Help with useability testing
- Provide relevant development software access
  - Animation, video editing , project planning, analysis etc

## What we do not do

- Population health/generic health promotion
- Basic science
- Development of top down ideas, prototypes with unknown application need not developed to improve patient or clinician experience
- Provide \$ for project grants
- Provide \$ to students

# Linking network and expertise

