

Development and pilot testing an integrated mental health and substance use Needs-based Planning model: Lessons learned for local planning and model refinements

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The big challenge we are hoping to improve for system planners and decision-makers

- The treatment “systems” of today are not “systems” at all
- Getting the **right balance** is now challenging :
 - Across mental health, substance use and concurrent disorder services
 - Across the treatment and support continuum – e.g., residential, community/hospital, levels of withdrawal management, etc. and,
 - Within the specialized sectors (MH and SU) and outside in the broader system (e.g. primary care, schools, corrections)
- No real sense of the **required capacity** of these services in relation to community needs
- Goal should be a treatment and support system that maximizes population health as well as individual and family outcomes

Key project details

- Funded by **Health Canada** – three years (November 2019 – October 2022)
- **CAMH** project, with significant **collaboration** from MHCC, CCSA, CIHI
- **Tremendous support** across the country
 - National Advisory Committee
 - Expert Research Advisors
 - Links to other collaborating organizations, e.g. Youth Wellness Hubs/Graham Boeck Foundation
- **Building upon:**
 - Almost 10 years of work on a national substance use model, including implementation experience (NE Ontario, Quebec, Manitoba, BC)
 - Recent work in BC that included both substance use and mental health

Some comparisons

National Model

Aligned with **tiered framework** for planning broad spectrum of severity (including low-high risk substance use) **trans- diagnostic and focused on severity and complexity**

Estimates **number in need** for each core service in a given jurisdiction

Pilot testing, evaluation and implementation experience for gap analysis

BC – based model

Diagnosis-based with levels of severity within diagnostic band

Combines level of need across disorders, adjusting for co-morbidity

Estimates the required suite of services and then combined to yield, for SU and MH:

- Number in need
- **FTE's**
- **Bed requirements**

Gap analysis not yet pilot tested

International Work

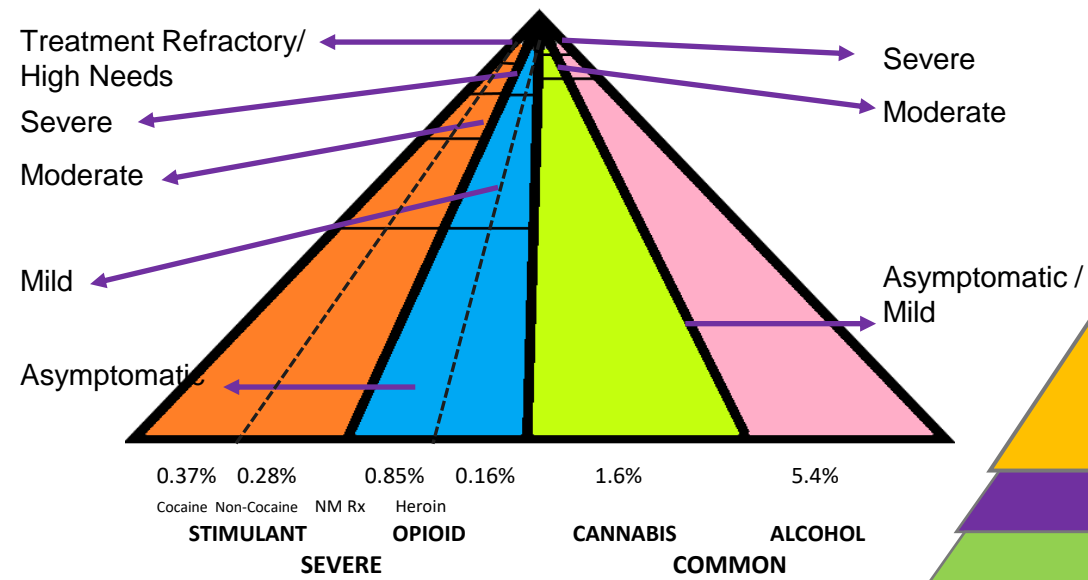
Confirms emergence of Needs-Based Planning as evidence-based practice

Mix of both approaches – tiered model and diagnostic

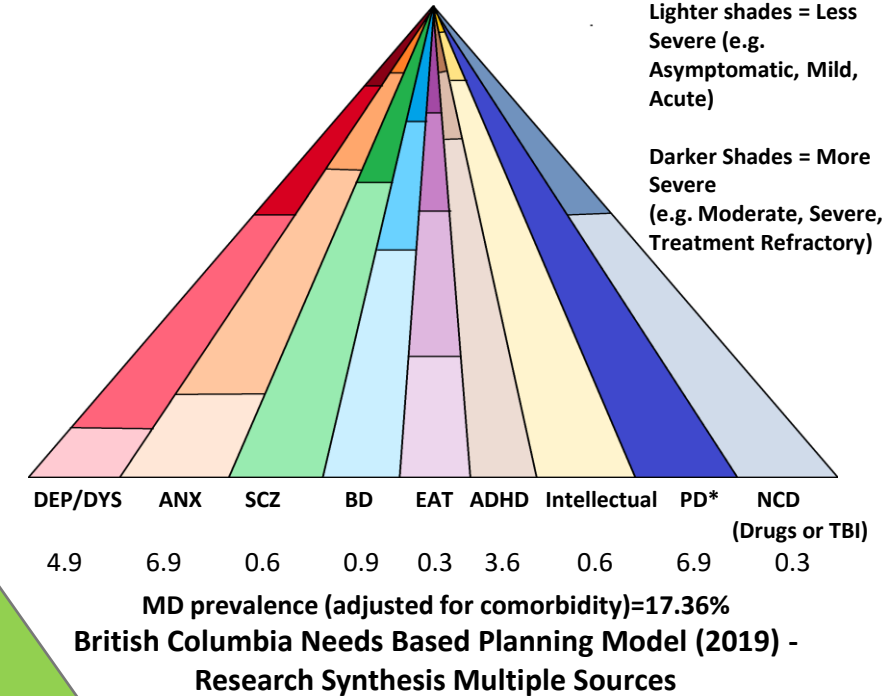
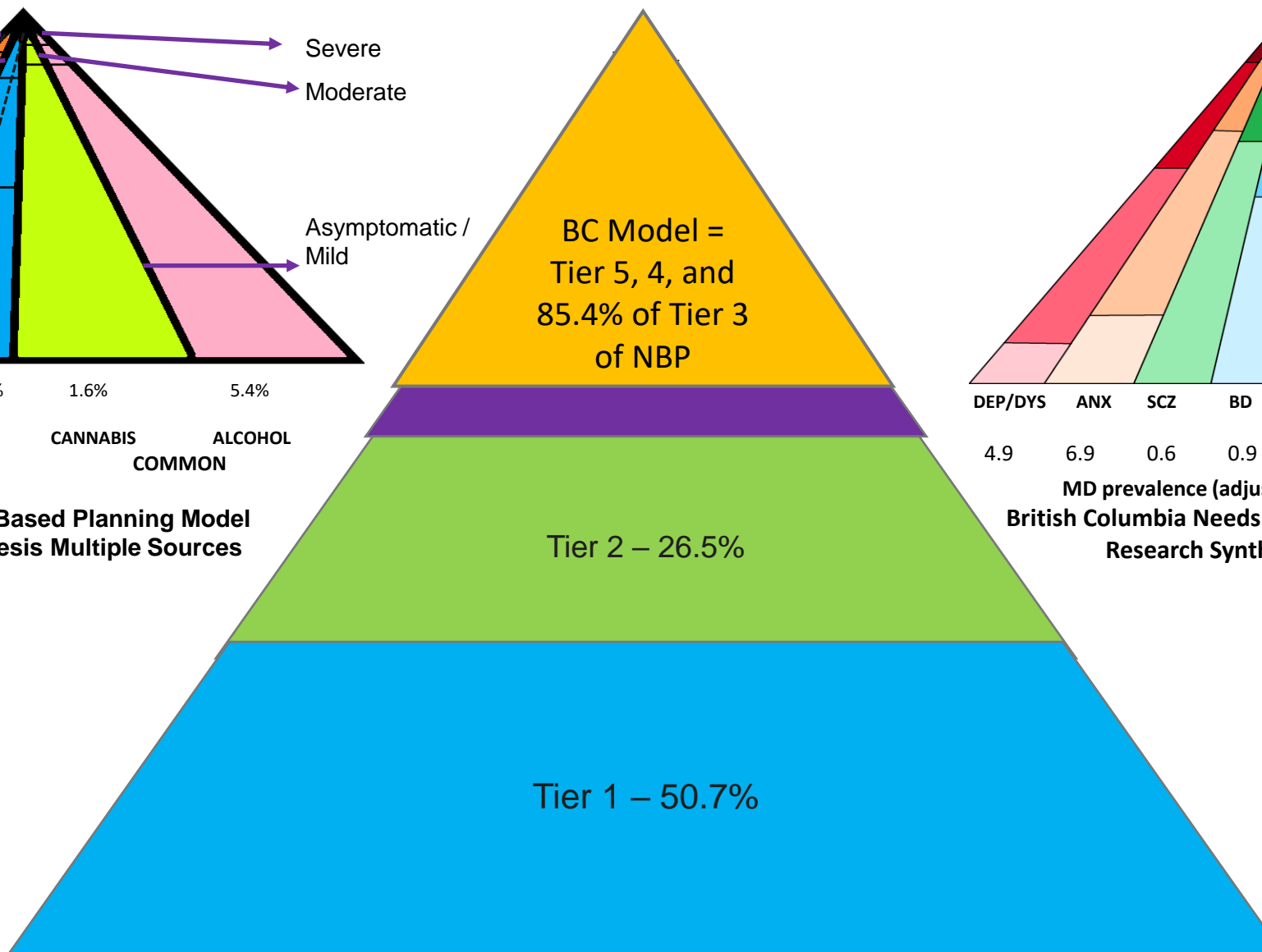
Sharing learnings across jurisdictions (e.g., Australia)

Lessons learned for implementation

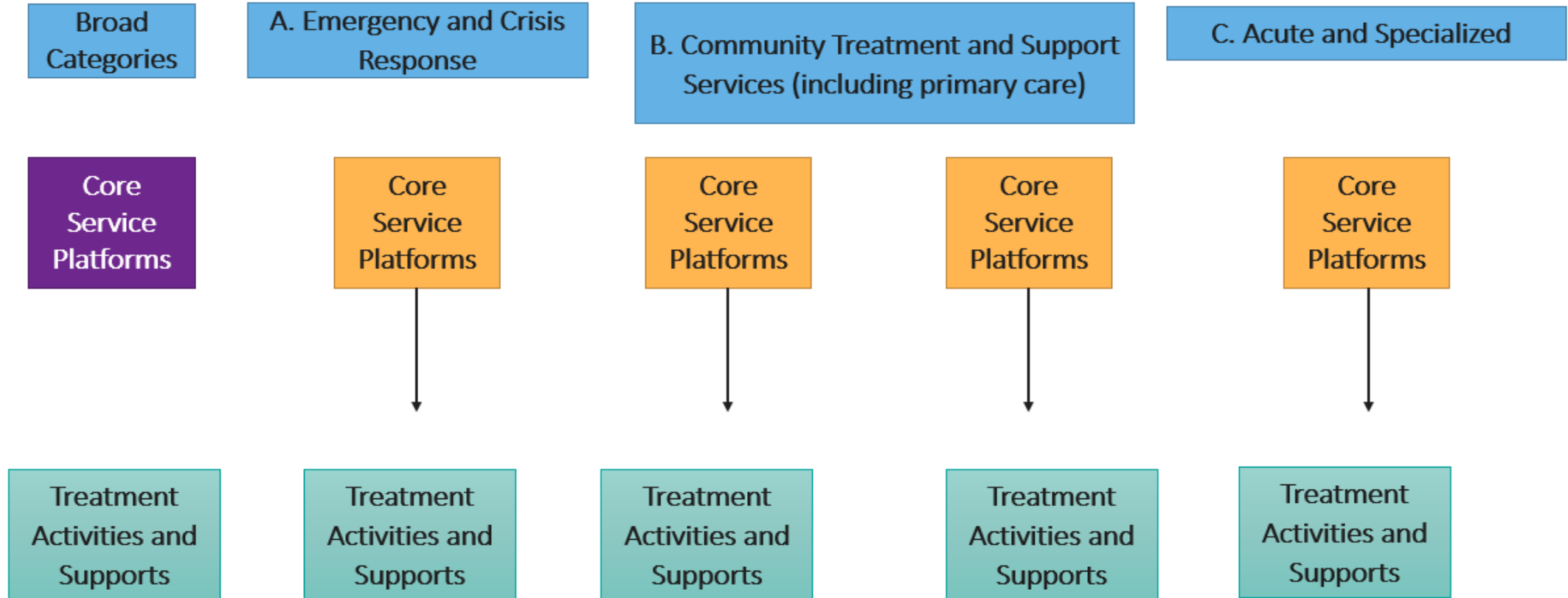
Prevalence and severity of mental and substance use disorders



British Columbia Needs Based Planning Model (2019) - Research Synthesis Multiple Sources



Overview of National Core Services Framework



Function A. Emergency and Crisis Response

Core Service
Platforms

Emergency Department

MH and A Crisis Service

Urgent Care Clinic

Crisis Intervention /
Mobile Crisis

Crisis Stabilization Units

Acute intoxication
Service

Distress / Crisis Phone /
Digital Services

Other

Digital Services and supports

Legend

Calculated separately for gap
analysis

Calculated together for gap
analysis

Not included in gap analysis

Function: B. Community Treatment and Support Overview – Four components

Core Service
Platforms

1. Collaborating
Partners

2. Comprehensive
MH/SU Services and
Supports

3. Intensive MH/SU
Services and Supports

4. Bed-based Recovery
Supports

Function: B. Community Treatment and Support Services – Part 1

Core Service Platforms

1. Collaborating Partners

- Primary Care
- Public Health Services
- Social Services
- Family and Youth Services
- Schools/Post-Secondary
- Justice-related Services

2. Comprehensive MH/SU Services and Supports

- Coordinated/Central Access and Navigation
- MH /SU Community Services (blended or Independent) includes (counselling, clinical, psychosocial)
- Peer and Family Support Services (Blended or Independent) MH /SU teams (include psychosocial)
- Consultation and Liaison (ER, Hospital, LTC, Home Care, Schools, Police-based)
- Home/Mobile WMS
- Addiction Medicine Specialty Services (physician, psychiatrist, RAAM/RAAC, OAT, managed alcohol)
- MH and SU court
- Supervised/Safe consumption sites

Other

- Digital Services and supports
- Private (e.g., EAP, therapist, psychologist)

Legend

Calculated separately for gap analysis

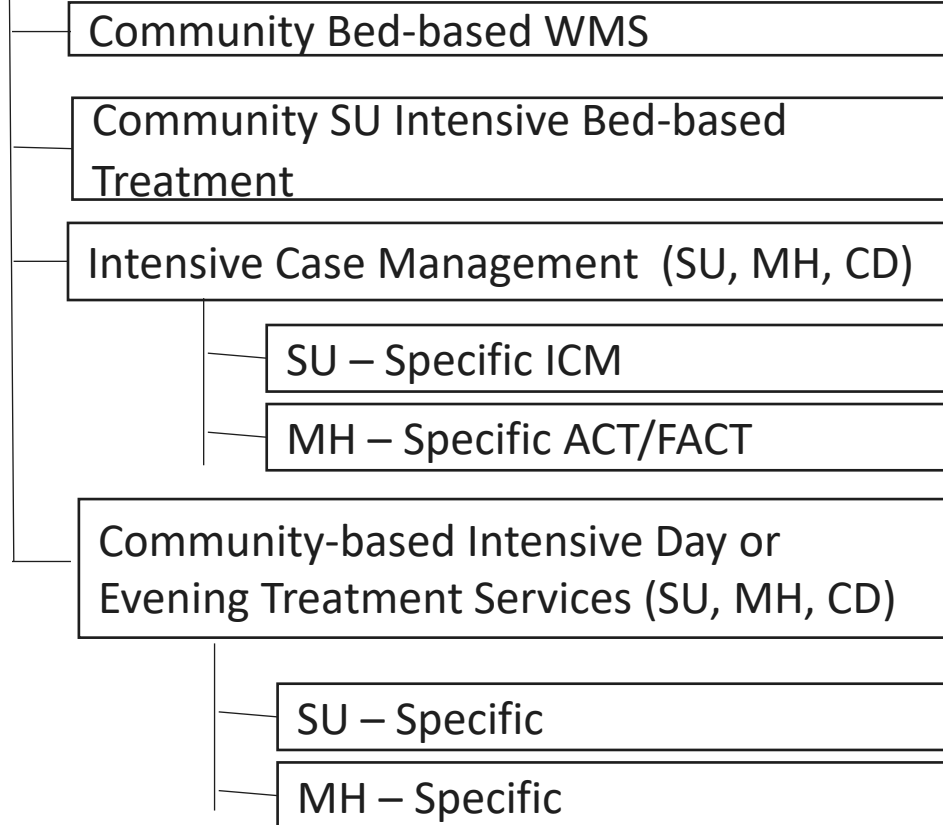
Calculated together for gap analysis

Not included in gap analysis

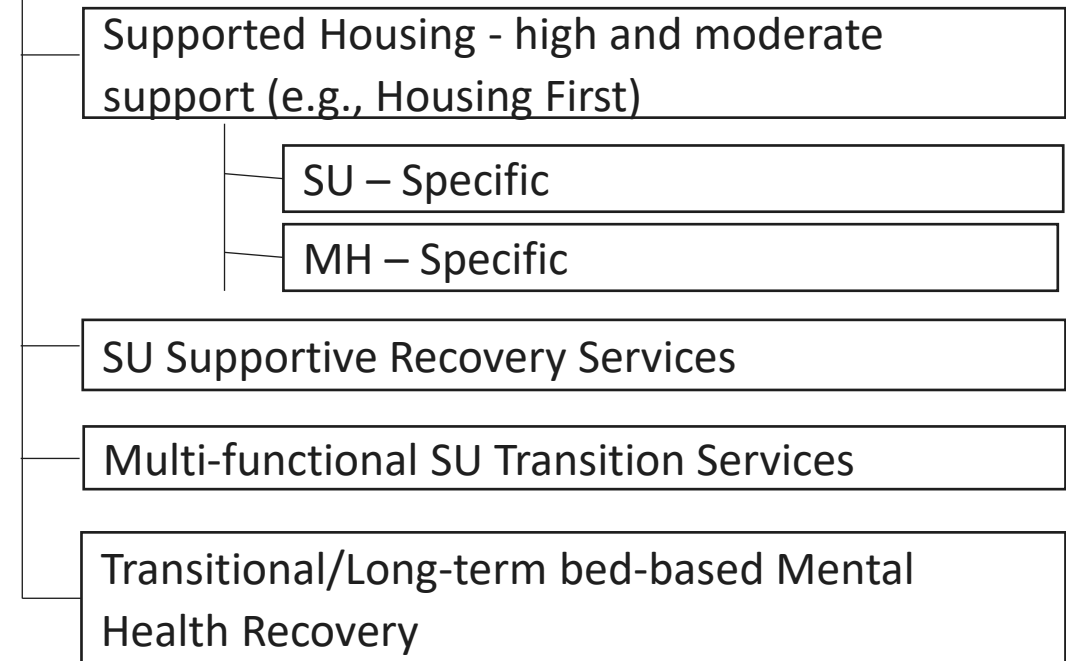
Function: B. Community Treatment and Support Services – Part 2

Core Service Platforms

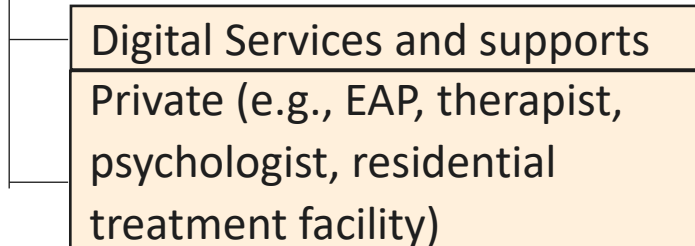
3. Intensive MH/SU Services and Supports



4. Bed-based Recovery Supports



Other



Legend

Calculated separately for gap analysis

Calculated together for gap analysis

Not included in gap analysis

Function C. Acute and Specialized

Core Service Platforms

Hospital bed-based Acute Care

Hospital bed-based Tertiary Care

Hospital bed-based SU WMS

Hospital bed-based Intensive SU Treatment

Other

Digital Services and supports

Private (e.g., mental health and substance use facilities)

Specialized

Forensic Inpatient

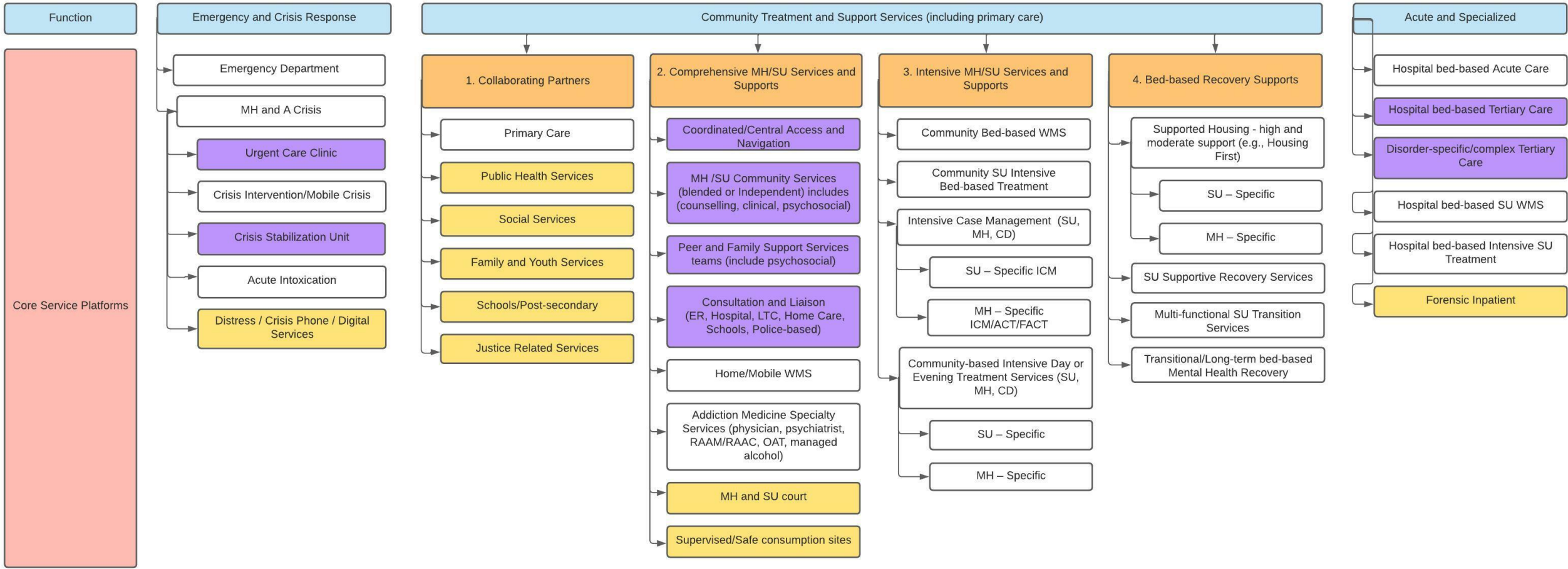
Disorder-specific/complex Tertiary Care

Legend

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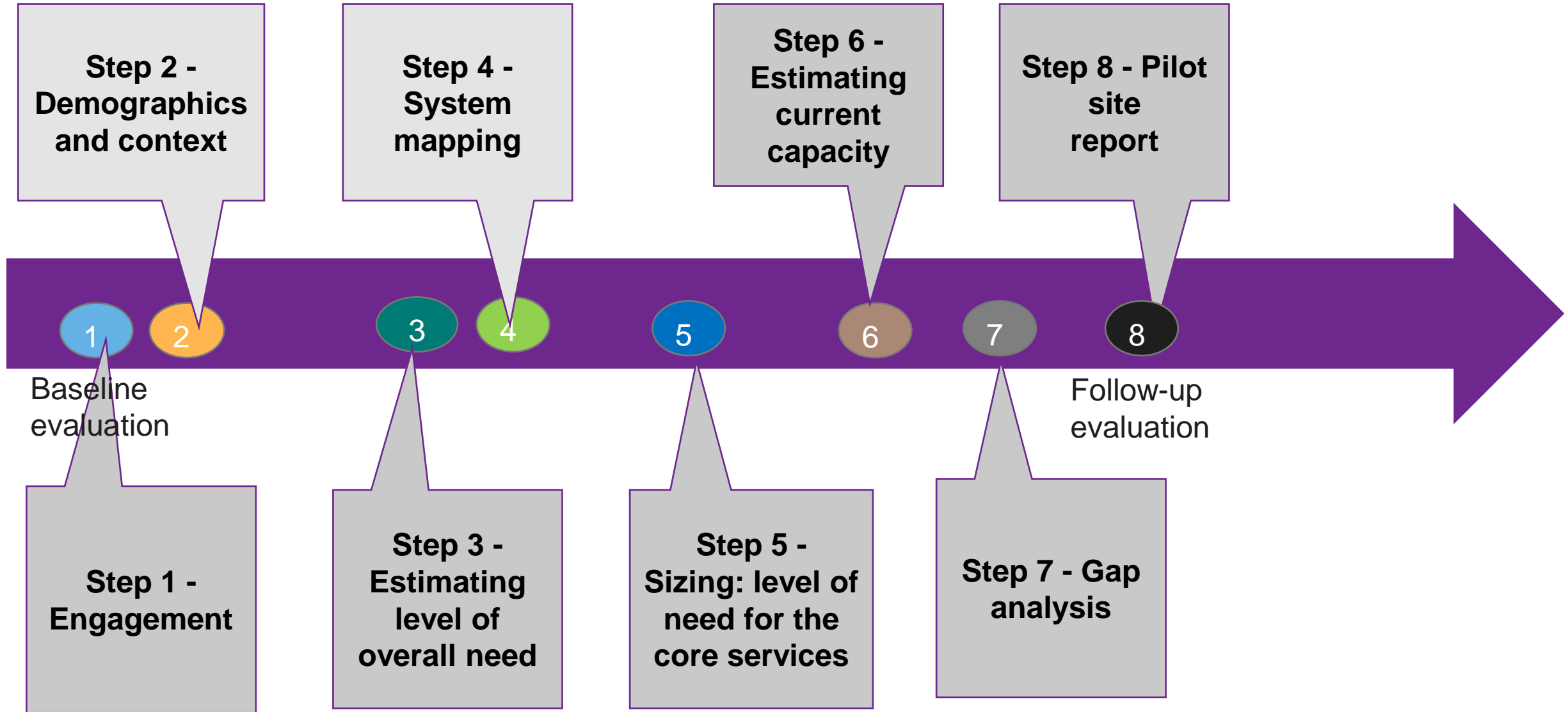
Not included in gap analysis



- Legend**
- Calculated separately for gap analysis
 - Calculated together for gap analysis
 - Not included in gap analysis



8 Key Steps



- ★ 2010-2014
- ★ 2016-2018
- ★ 2019-2022



Mapping the system example

ORGANIZATION	SERVICE/PROGRAM NAME	FUNCTION	CORE SERVICE PLATFORM
PMH	*Crisis Response Service	Emergency and Crisis Response	Crisis Intervention/ Mobile Crisis
PMH	7th Street Health Access Centre - Primary Care	Community Treatment and Support Services	Primary Care
Brandon Friendship Centre	Aboriginal Healing and Wellness Centre	Community Treatment and Support Services	MH/SU Community Services (blended or Independent) includes (counselling, clinical, psychosocial)
PMH	Activity Instructors	Community Treatment and Support Services	MH/SU Community Services (blended or Independent) includes (counselling, clinical, psychosocial)
PMH	Adult Community Mental Health	Community Treatment and Support Services	MH/SU Community Services (blended or Independent) includes (counselling, clinical, psychosocial)
PMH	Amberwood Village	Community Treatment and Support Services	Long-term bed-based Mental Health Recovery/Transitional
CMHA Swan Valley	Canadian Mental Health Association - Swan Valley	Community Treatment and Support Services	MH/SU Community Services (blended or Independent) includes (counselling, clinical, psychosocial)
AFM	CART - (Community Addictions Response Team)	Community Treatment and Support Services	MH/SU Community Services (blended or Independent) includes (counselling, clinical, psychosocial)
PMH	Centre for Adult Psychiatry (CAP)	Acute and Specialized	Hospital bed-based Acute Care
PMH	Centre for Geriatric Psychiatry (CGP)	Acute and Specialized	Hospital bed-based Tertiary Care OR Disorder-specific/complex hospital bed-based

Emergency & Crisis Services

Service	Exists	Gap
Emergency Department	Y	- 3 Beds*
Urgent Care/Crisis Stabilization Unit	Y	+ 17 Beds**
Mobile Crisis	Y	Invalid
Acute Intoxication Service	N	- 4 Beds

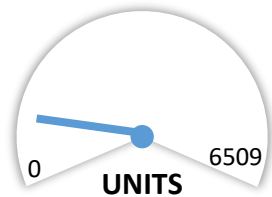
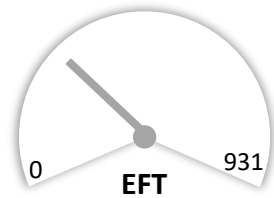
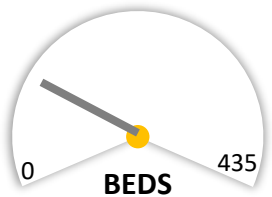
* MHLN are not represented as the estimate is in beds.

** The model does assume a full suite of services decreasing the estimate for crisis services

Acute & Specialized

Service	Exists	Gap
Hospital Bed Based Acute Care	Y	-1 Beds
Hospital Bed Based Tertiary Care	Y	- 25 Beds*
Hospital Bed Based SU WMS	N	- 2 Beds
Hospital Bed Based Intensive SU Treatment	N	- 14 Beds

* Beds available provincially



Comprehensive Community

Service	Exists	Gap
Home or Mobile WMS	N	- 7 EFT
Addictions Medicine Specialty Services	Y	- 7 EFT
Level 1 - Physicians (General Practitioner, Internal Medicine, Addiction Medicine or Psychiatry)	Y	- 45 EFT
Level 2 - Clinicians with competencies and credentialing for highly specialized assessment and therapy	Y	- 141 EFT
Level 3 - Professionals with providing counselling, case coordination/management, transitional supports, medication supports, and psychosocial rehabilitation	Y	- 7 EFT
Level 4 - Professionals providing psychoeducation and psychosocial supports	Y	+46 EFT
Level 5 - Workers with lived experience providing peer/family support or healthy living activities	Y	- 46 EFT

Intensive Services & Supports & Bed Based Recovery Supports

Service	Exists	Gap
Community Bed Based WMS	Y	- 1 Beds
Community SU Bed Based Treatment	Y	+ 7 Beds*
ICM/ACT/FACT	Y	- 50 EFT
Supported Housing – High and Moderate	Y	- 2,352 Units
Subsidized Housing	Y	- 4,156 Units
SU Supportive Recovery Services	Y	- 46 Units
Multi Functional SU Transition Service	N	- 27 Beds
Long Term Bed Based Mental Health Recovery	Y	- 82 Beds

* Provides services to more than population of PMH

Estimating current core services supply and utilization

- ✓ Estimate the current core services supply and utilization by identifying where there are gaps (and potential surpluses) in each of the Core Services

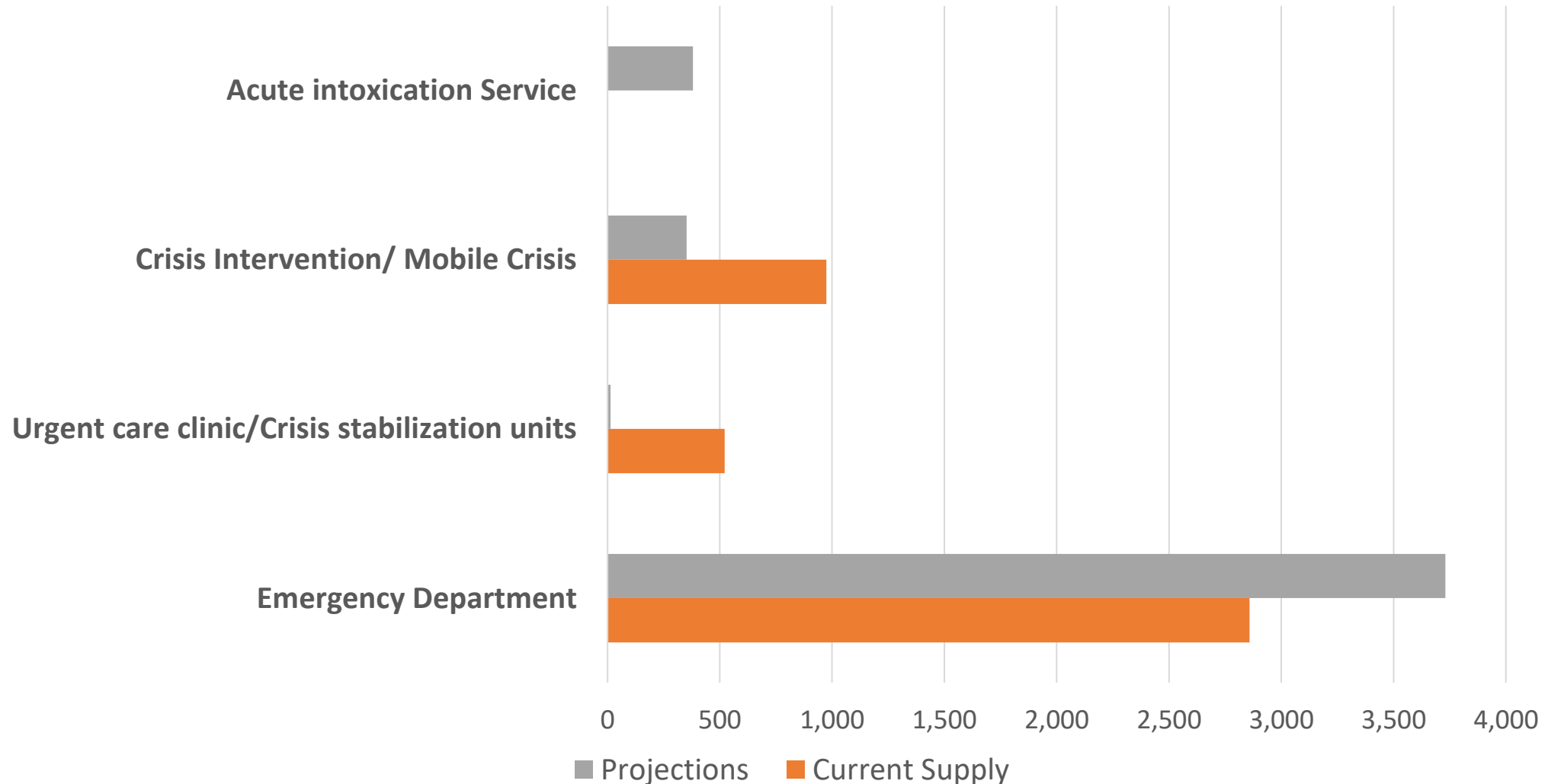
Current Capacity			
Core Service Platform	People (Unique)	Beds	FTEs
Emergency Department	2,859		N/A
Urgent care clinic/Crisis stabilization units	522	18	31
Crisis Intervention/ Mobile Crisis	974	N/A	1
Acute intoxication Service			N/A

Projection		
Persons	FTEs/Beds	Unit
3,730	3	Beds
14	1	Beds
352	1	FTE
380	4	Beds

GAP		
Persons	FTEs/Beds	Unit
-871	-3	Beds
508	17	Beds
622	0	FTE
-380	-4	Beds

Gap Analysis – by core service category (number of individuals, FTE's or Beds)

Current Supply vs Projections



Initial Analysis Priorities



Key Lessons Learned

- Interpretation of gap is based on **100% help seeking**, meaning that we are estimating that 100% of people that need help will actually seek the help they require
- Importance of the tiered framework – going beyond diagnosis, testing for co-morbidity
- Value of National model
- Iterative improvements based on pilot testing
- Going from Needs-based Planning to standards and performance measurement
- Need for a model specific to children and youth

Selected comments from Evaluation

The project will facilitate ability to utilize not only evidence based cutting edge research modeling but also draw on experiences from other jurisdictions.

Having a national model that will inform our individual region MH/SUD needs is essential to future practice.

This snapshot in time is priceless. It organizes the disarray of statistics we have as a collective.

Recognizing that many partners beyond the "formal" MHA system are engaged in service response, and taking the time to engage these partners in the conversation is beneficial to shift/strengthen a whole system response (e.g., inclusion of Primary Health Care in the Advisory Committee).

The outcome of this project has the potential to be a game changer in service delivery.

Sustainability Vision

- Focus on **building capacity** for implementation of the Needs-based Planning Model and its various tools and processes to support planning, funding and delivery of mental health and substance use services
- Broad national and regional stakeholder **buy-in** for its application, while ensuring that the planning tool and related supports are **user-friendly, flexible, and available at no cost**
- Support **reasonable adaptations** needed by decision-makers in diverse contexts while maintaining fidelity to the core elements

Recommendations for Needs Based Planning Sustainability Model in Canada: DRAFT

