







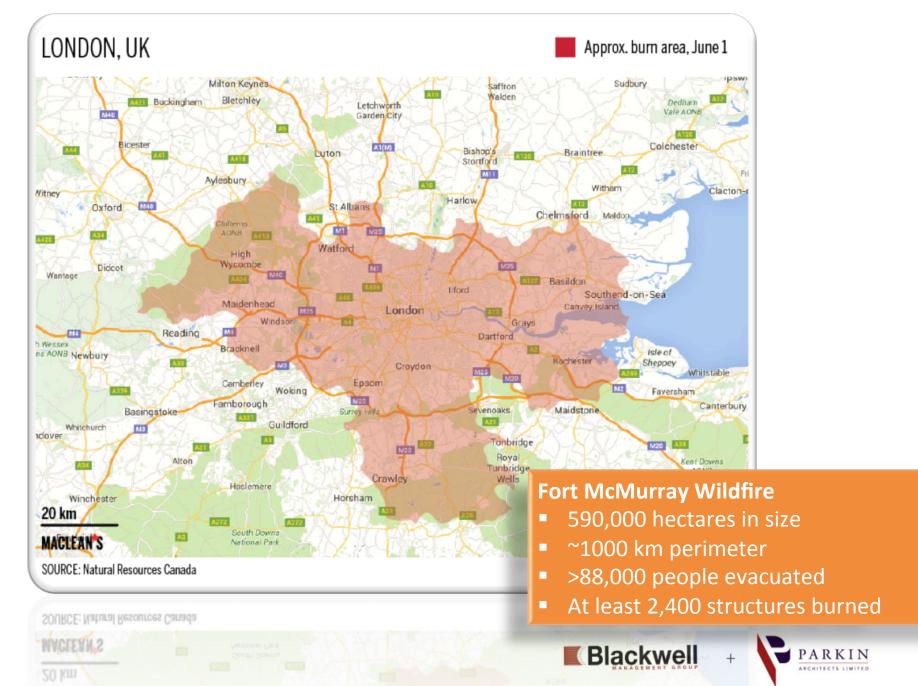


Dr. David Mador



**Basel Abdulaal** 







#### **Alberta Health Services**

- A publicly-funded healthcare system
- Provides health services to ~4M people scattered over 662,000 km²
  - 108,000 staff
  - 8,000 physicians
  - 16,000 volunteers
- Programs and services in 650 facilities
  - 8500 acute beds in 106 hospitals
  - 24,000 continuing care beds
  - Equity partnerships in 42 Primary
     Care Networks
- Operating budget \$14.3B
  - € 9.9B
  - £ 7.8B







## Yukon Whitehorse **Territories** Columbia Manitoba Quebec Ontario Edward Nova Scotia to Lake Ontario Lake Michigan

#### **Edmonton Zone of AHS**

- Full range of health services including highly-specialized tertiary & quaternary services
- 1.2M people live in the city of Edmonton and six surrounding communities
- Major role as a regional service provider.
   Catchment population varies from 1.5M to
   4.5M people. Most live in an area about
   2,000,000 km² in size



- 65M people
- 244,000 km<sup>2</sup>







#### The 2030 Plan is...

A unique, large-scale, comprehensive integrated health service delivery & infrastructure plan built on:

- Expected service demands and shifts in health needs
- Application of evidence and best practices
- Sustainability







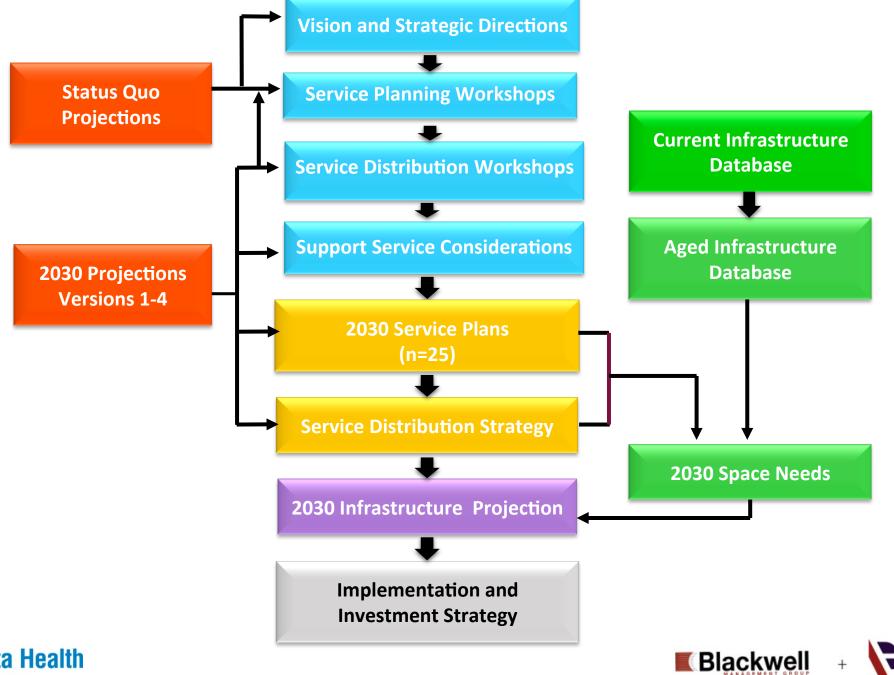


# Status Quo Projections & Sustainability

HEALTH SERVICE	PROJECTED CHANGE BY 2030			
Family Practice/GP Services	39.1% increase			
EMS Activity	57.0% increase in emergency events,			
	63.6% increase in non-emergency events (excl. inter-facility transfers)			
<b>Emergency Department Visits</b>	33% increase			
	111% increase for aged 65 and older			
Acute Care Inpatient Days	59.6% increase in acute care inpatient days			
	equivalent to over 2,200 additional beds			
Rehabilitation Inpatient Days	86% increase			
Short Term Home Care	82% increase			
Long Term Home Care*	138.3% increase			
Continuing Care Beds*	50.3% increase			
*Projections for continuing care incorporate service mix changes in the Continuing Care Capacity Needs Assessment				













# RESULTS (part 1) A RESTRUCTURED HEALTH CARE SYSTEM







#### '2030' Shifted the Focus Toward:



- Health promotion, primary care, home and community service delivery
- The use of distance technologies
- Right-sizing the major elements of the system
- Evidence-informed and integrated service and capital planning







#### Reducing the Demand for Health Services

- Injury reduction and health promotion
- Stroke and MI prevention
- 3. Proactive health care for vulnerable populations







### Shifts to Home and the Community



- 1. Community Health Centres (n=15)
  - Rehab (PT, OT, SLP at a minimum)
  - Public Health
  - Home Care
  - Mental Health
  - After-Hours/Urgent Care
  - Plus community-specific health services
- 2. Decanting selected Services out of Hospitals
  - Hemodialysis
  - Endoscopy
  - Low-Risk Surgery
  - Low-Risk Obstetrical Deliveries
  - Hospice







## Comprehensive, Multi-Level Rehabilitation Strategy













#### **Optimize Acute Care**

## By 2025:

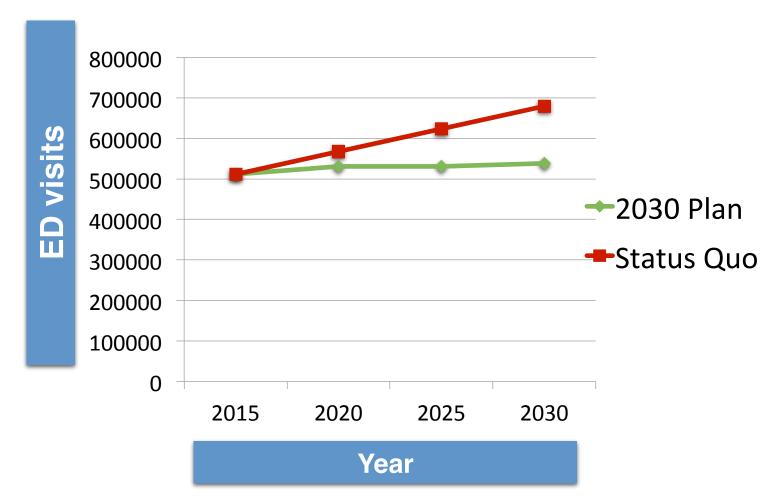
- Distribute acute care beds to align with demand
- Reduce acute care admission rates to that of peer facilities in Canada
- Target average length of stay at 85% of Canadian typical expected length of stay
- Alternate Level of Care (ALC) bed days reduced by 50% from current levels







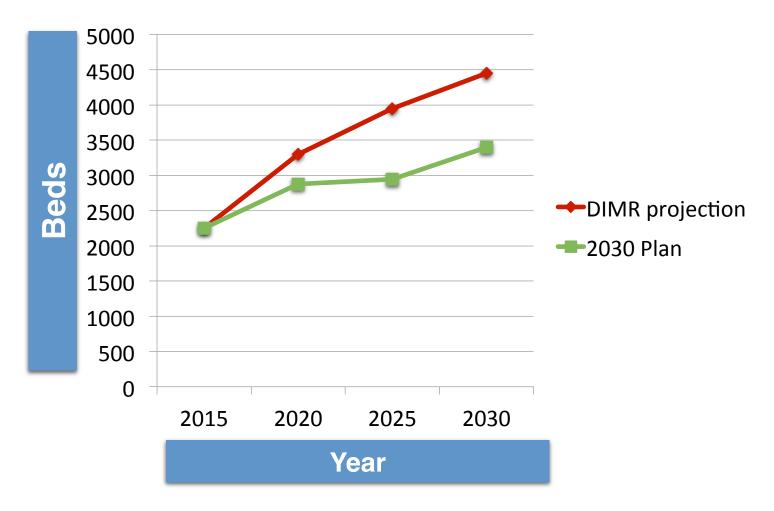
### 140,700 Fewer Emergency Visits







#### 1,054 Fewer Acute Care Beds

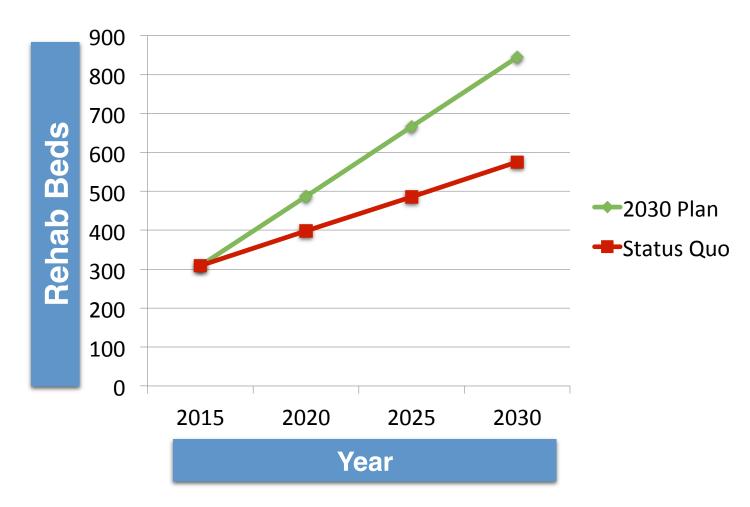








#### 173% Increase in Rehab Beds

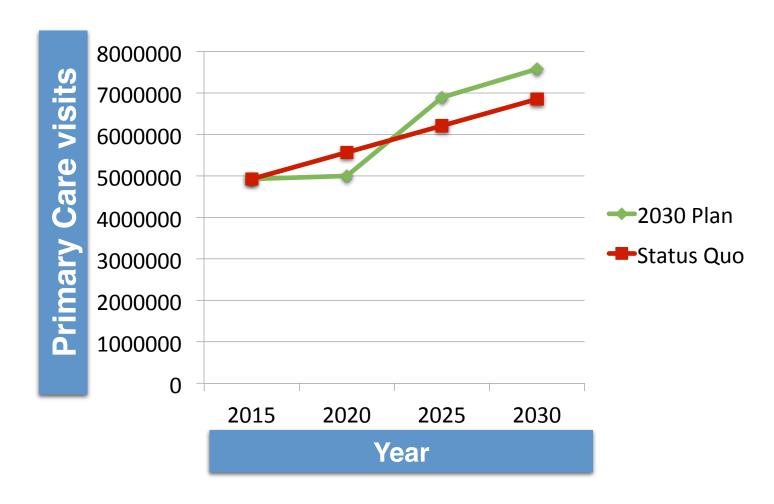








### 732,750 More Primary Care Visits

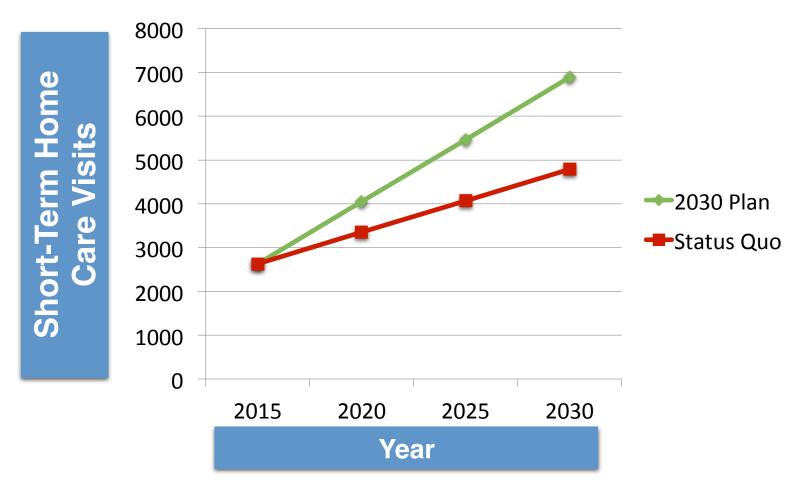








#### 162% Increase in Short Term Home Care







# RESULTS (part 2) A SUITE OF PLANNING TOOLS







## Taxonomy of Programs and Services

18 PROGRAM CODE	v18 PROGAM NAME	v18 SERVICE CODE	v18 SERVICE NAME	
01	ADDICTION & MENTAL HEALTH	300	ADOLESCENT FORENSIC PSYCH INPATIENT	
01	ADDICTION & MENTAL HEALTH	301	ADOLESCENT FORENSIC PSYCH - OP/DAY	
01	ADDICTION & MENTAL HEALTH	302	ADOLESCENT PSYCH INPATIENT	
01	ADDICTION & MENTAL HEALTH	303	ADOLESCENT PSYCH OP/DAY	
01	ADDICTION & MENTAL HEALTH	304	ADULT ADDICTION - RESIDENTIAL	
01	ADDICTION & MENTAL HEALTH	001	ADULT ADDICTION - OP/DAY	
01	ADDICTION & MENTAL HEALTH	005	ADULT FORENSIC PSYCH - OP/DAY	
01	ADDICTION & MENTAL HEALTH	186	ADULT PSYCH INPATIENT	
01	ADDICTION & MENTAL HEALTH	002	ADULT PSYCH OP/DAY	
01	ADDICTION & MENTAL HEALTH	188	ADULT FORENSIC PSYCH - INPATIENT	
01	ADDICTION & MENTAL HEALTH	305	CHILD PSYCH INPATIENT	
01	ADDICTION & MENTAL HEALTH	004	CHILD PSYCH OP/DAY	
01	ADDICTION & MENTAL HEALTH	189	GERIATRIC PSYCH INPATIENT	
01	ADDICTION & MENTAL HEALTH	006	GERIATRIC PSYCH OP/DAY	
01	ADDICTION & MENTAL HEALTH	165	PSYCH. ICU	
01	ADDICTION & MENTAL HEALTH	187	YOUTH ADDICTION - OP/DAY	
01	ADDICTION & MENTAL HEALTH	003	YOUTH ADDICTION - RESIDENTIAL	
02	ALLIED HEALTH	007	AUDIOLOGY	
02	ALLIED HEALTH	008	ОТ	
02	ALLIED HEALTH	010	PSYCHOLOGY	
02	ALLIED HEALTH	009	PT	
02	ALLIED HEALTH	011	RECREATIONAL THERAPY	
02	ALLIED HEALTH	012	REHAB SERVICES (INTERDISCIPLINARY)	
02 ALLIED HEALTH		013	RESPIRATORY THERAPY	
02 ALLIED HEALTH		015	SLP	
02 ALLIED HEALTH		014	SOCIAL WORK	
02 ALLIED HEALTH		016	SPIRITUAL CARE	
03	03 CARDIAC SCIENCES		CARDIAC CATH LAB & EP	
03	CARDIAC SCIENCES	017	CARDIAC DIAGNOSTICS	
03	CARDIAC SCIENCES	019	CARDIAC REHABILITATION	
03	CARDIAC SCIENCES	021	CARDIAC SCIENCES - OP/DAY	
03	CARDIAC SCIENCES	190	CARDIAC SURGERY - INPATIENT	
03	CARDIAC SCIENCES	191	CARDIOLOGY - INPATIENT	
03	CARDIAC SCIENCES	168	сси	
03 CARDIAC SCIENCES		041	CV ICU	
03	CARDIAC SCIENCES	041	CVICO	

CARDIAC SCIENCES

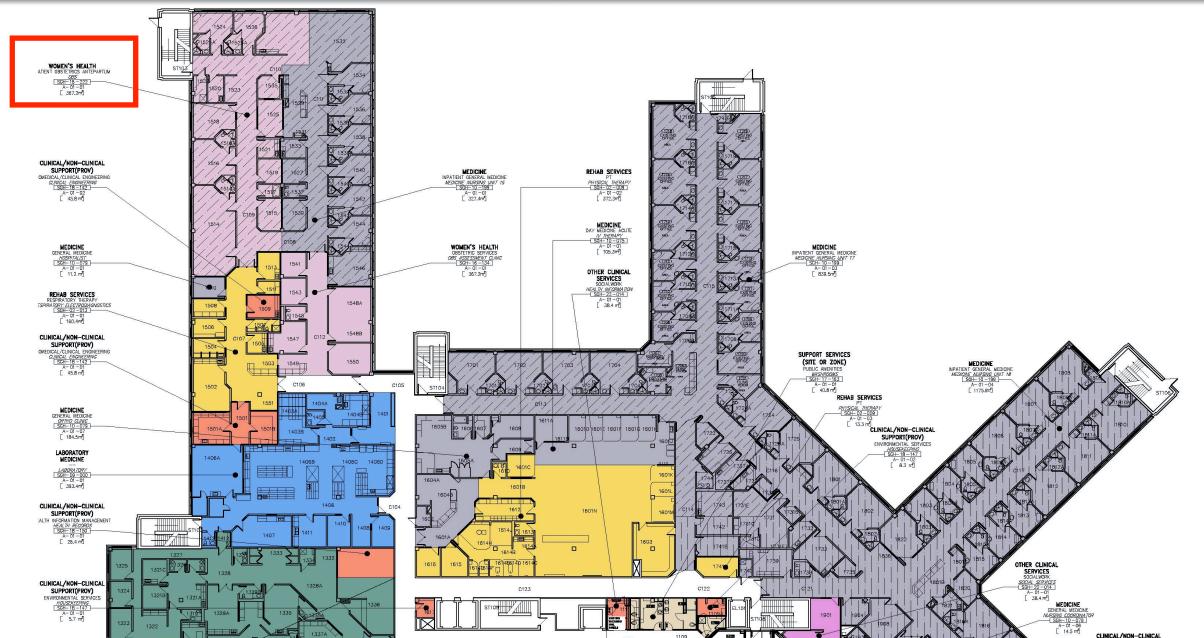




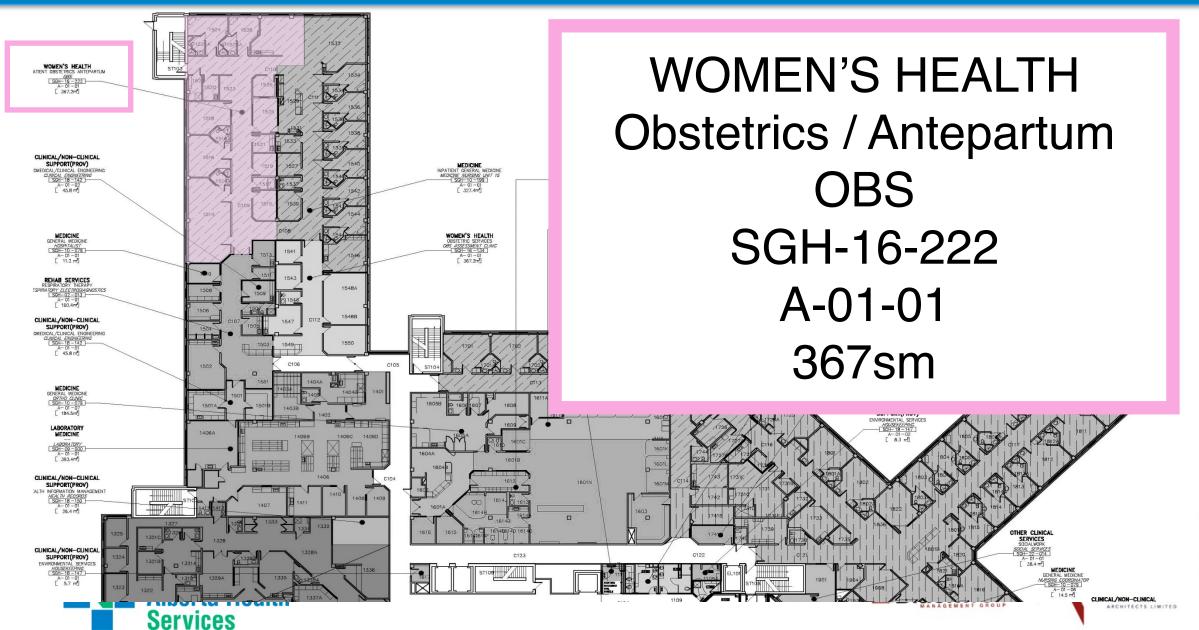
**SURGICAL SUITE & PARR** 



# Current State Drawings



## **Drawing Tagging System**

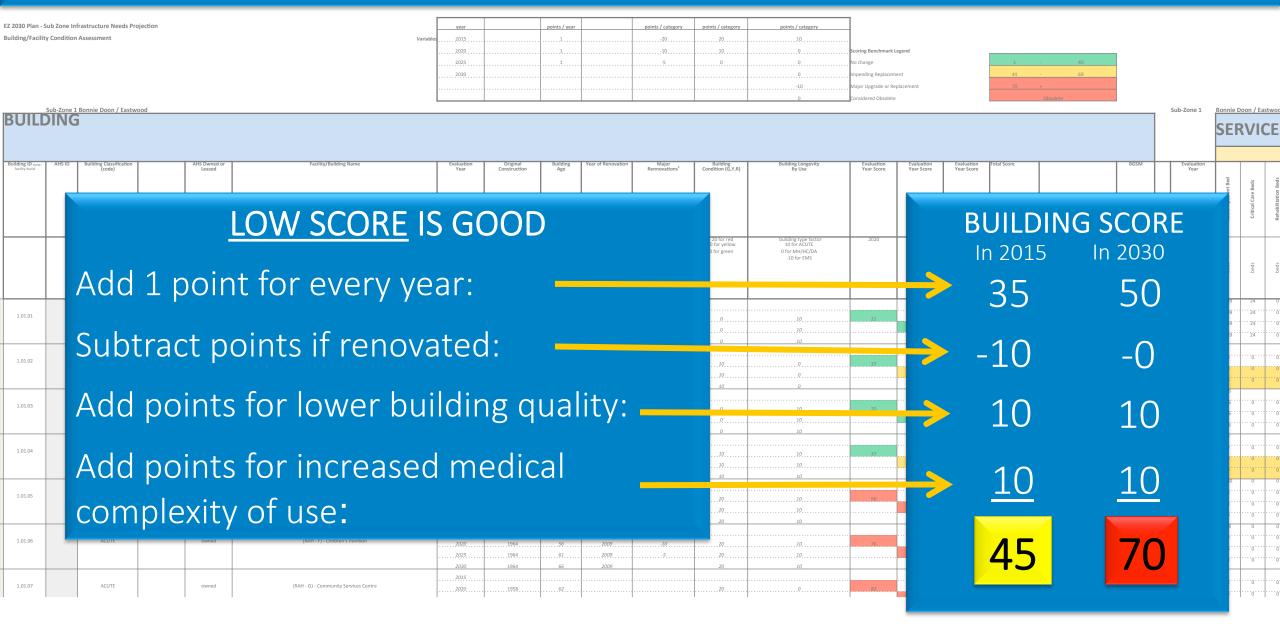


## Interactive, Searchable Databases

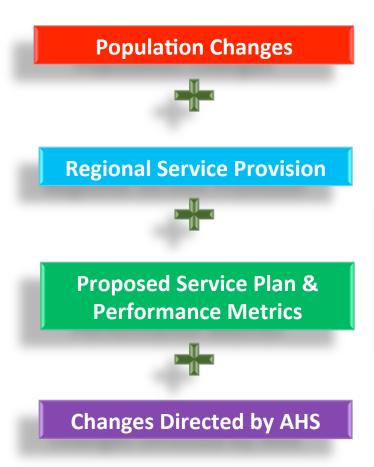
**Building/Facility Condition Assessment** Sub-Zone 1 Bonnie Doon / Eastwood **SERVICE** 10 for ACUTE 0 for MH/HC/DA -10 (11-15 yrs), -5 (16-20 yrs) (RAH - A) - Robbins Pavillion (RP) 37649 2025 2015 6392 owned (RAH - B) - Material Management Centre 2020 6392 6392 2015 8458 (RAH - C) - Orthopedic Surgery Centre 8458 2025 8458 ..861. (RAH - D) - Renal Dialysis Uni ..861. 2025 861 ACUTE owned (RAH - E) - ATC building 2020 2025 2015 (RAH - F) - Children's Pavillion 2020 2025 ...0.. 2020 .... 2015 (RAH - H) - Diagnostic Treatment Centre (DTC)

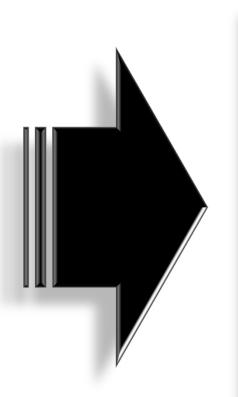
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## Infrastructure Aging Tool



## Service Projection Models (n=20)













#### Conversion of Workload to Infrastructure



**Workload Projections** 





Converted Workload to Key









**Future** Area Requirements









# Projected Space Needs in 2030

	Type of Space	2020 Gap	2025 Gap	2030 Gap
s	Inpatient Beds	-1093	-1700	-2264
	Critical Care Beds	-173	-199	-268
	Rehabilitation Beds	-346	-483	-647
BEDS	NICU Beds	-56	-66	-76
-	Forensic Psychiatry Beds	-18	-25	-33
	Sub-Total: Inpatient Beds	-1686	-2473	-3288
	LDR's	-23	-20	-21
	Hemodialysis Stations: Inpatient	10	7	4
	Hemodialysis Stations: Outpatient	-31	-48	-67
	Sub-Total: Hemo Stations	-21	-41	-63
	Endoscopy Rooms – Hospital	12	12	11
	Endoscopy Rooms – Community	-16	-18	-20
	Cystoscopy Rooms	-4	-5	-5
	Bronchoscopy Rooms	-1	-1	-2
S	Sub-Total: Scope Spaces	-9	-12	-16
	Operating Room: General	-24.5	-30.5	-42.5
PAC	Operating Room: Ophthalmology	2	2	2
ls o	Operating Room: General Operating Room: Ophthalmology Operating Room: CV Operating Room: iMRI Operating Room: Hybrid Operating Room: Gyne Operating Room - C-Section only Sub-Total: Operating Rooms PARR/Recovery Room Stretchers	1	1	-1
SEI		0	0	0
èΑ	Operating Room: Hybrid	-2	-2	-2
JRE	Operating Room: Gyne	-5	-5	-6
EDL	Operating Room - C-Section only	-4	-4	-4
00	Sub-Total: Operating Rooms	-33	-39	-54
A.	PARR/Recovery Room Stretchers	-151	-165	-195
	Day Surgery Stretchers	43	39	29

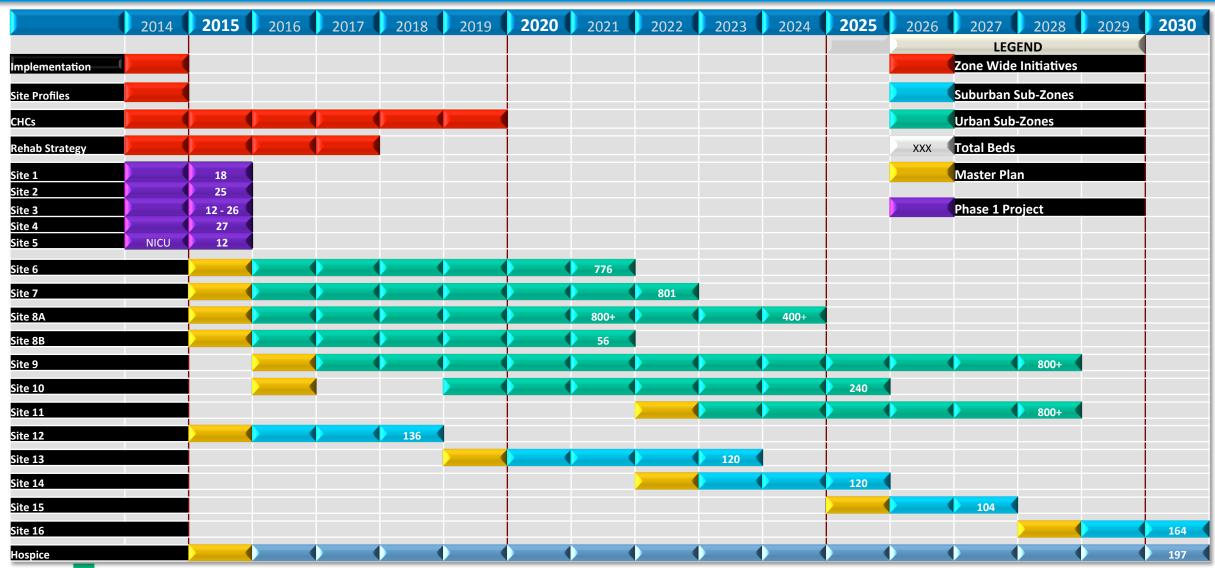
# RESULTS (part 3) EVIDENCE-INFORMED CAPITAL PLANNING







## 2030 Investment Strategy - Preliminary









#### Site Profiles & Master Plans

#### Site Profiles

Role statements were developed for each facility, assigning responsibility for 2030 programs, services and workloads





#### Campus-Wide Master Plans

- Master Plans were informed by the 2030 Service Plans and the Site Profiles.
- Master Planning was conducted at three campuses
   a total of 9 facilities







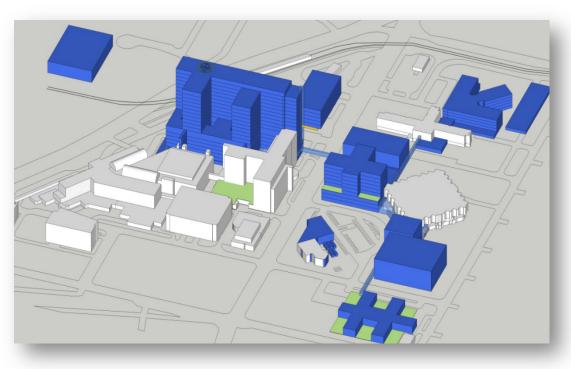




#### Master Plan #1

#### 419,000 BGSM

230+ components 17 year implementation plan





#### Royal Alexandra Hospital

- Large inner city hospital & academic health centre
- 1174 inpatient beds and five 23-Hour Units
- 95,000 Emergency Department visits, 50,000 surgical procedures, 7,500 births with an emphasis on high-risk deliveries, 625,000 outpatient visits

#### Glenrose Rehabilitation Hospital

- Free-standing tertiary rehabilitation hospital
- 325 inpatient beds
- Very large outpatient/ambulatory service
- Major emphasis on the innovative use of technology

#### CapitalCare Norwood

- Post-acute, sub-acute and specialized continuing care programs
- 350 residential beds, 2 day programs for high-risk seniors
- Unique Zone-wide and province-wide services





# LESSONS LEARNED







- 1. The scope should include all clinical services, support services and sectors.
- 2. Data, data, data.... (and <u>credible</u> population projections)
- 3. Client project managers with in-depth knowledge, interpersonal and political skills, and a great work ethic.
- 4. Meaningful engagement of stakeholders really works...don't hold back here. But with all these people involved you need (1) time lots of it; and (2) extensive, committed project management from the consulting team & the client.
- 5. Need government engagement right from the beginning so they can 'come to the party' and begin to think about the implications for government planning and funding practices.
- 6. Should have client reps who can become expert at using & maintaining planning tools.
- 7. Must have direct, frequent access to the most senior executives in the organization.





# THANK YOU





