



From Strategy to Impact

Driving Measurable Impact with
Population Health Analytics



Today's Speakers



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Johns Hopkins HealthCare Solutions

Our **mission** is to improve people's health and well-being by commercializing the best of Johns Hopkins.

Our **vision** is to inspire and empower global populations to be the healthiest they can be.



Population Health Analytics

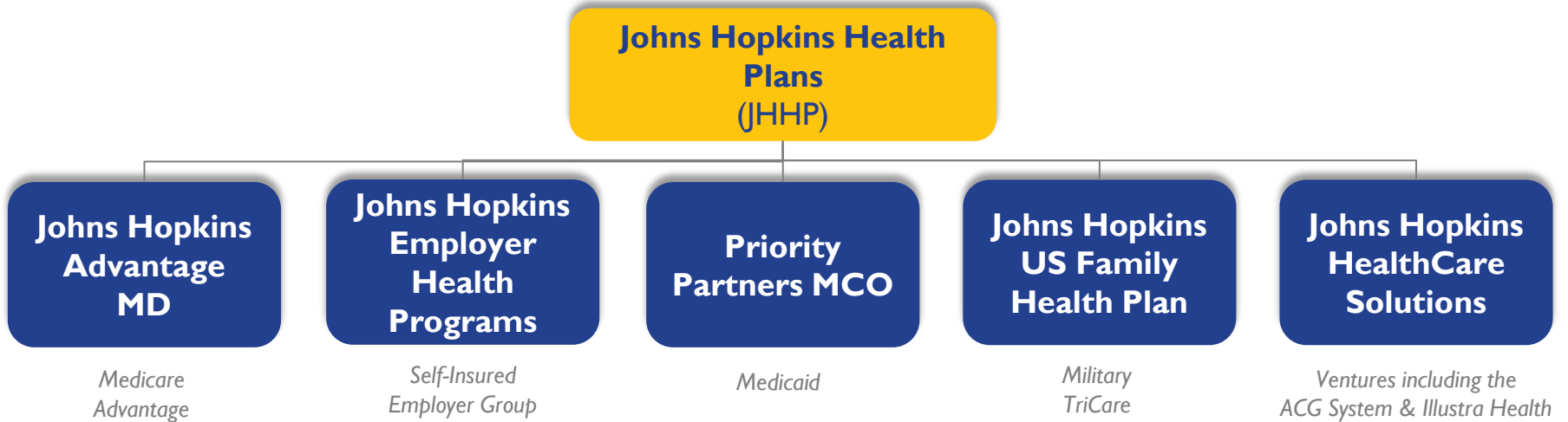


Johns Hopkins Onsite Clinics

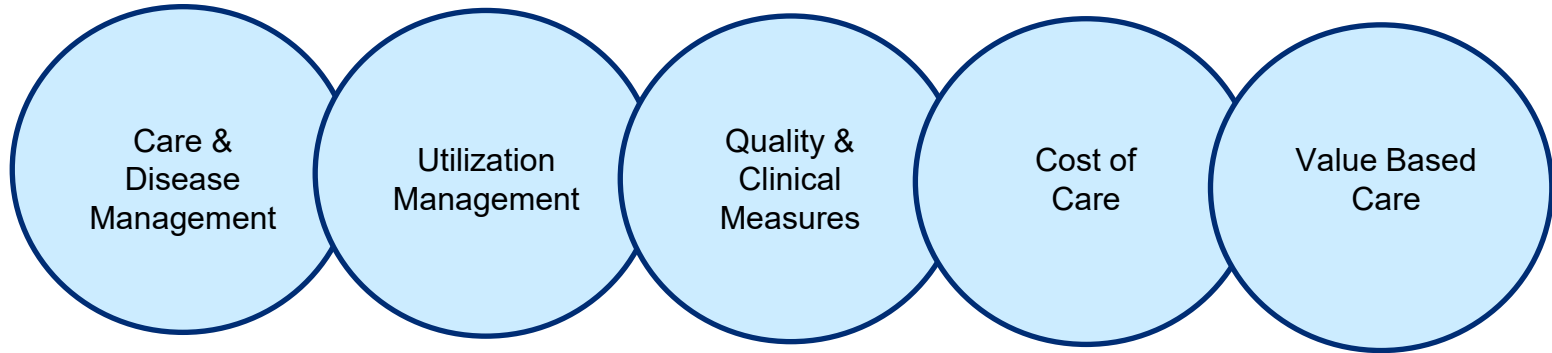
World-Class Health Care
— at Work

JHHP: Innovative Managed Care

A provider-sponsored plan in the Mid-Atlantic, advancing quality and affordability of health care for over 30 years.



Medical Management across Populations

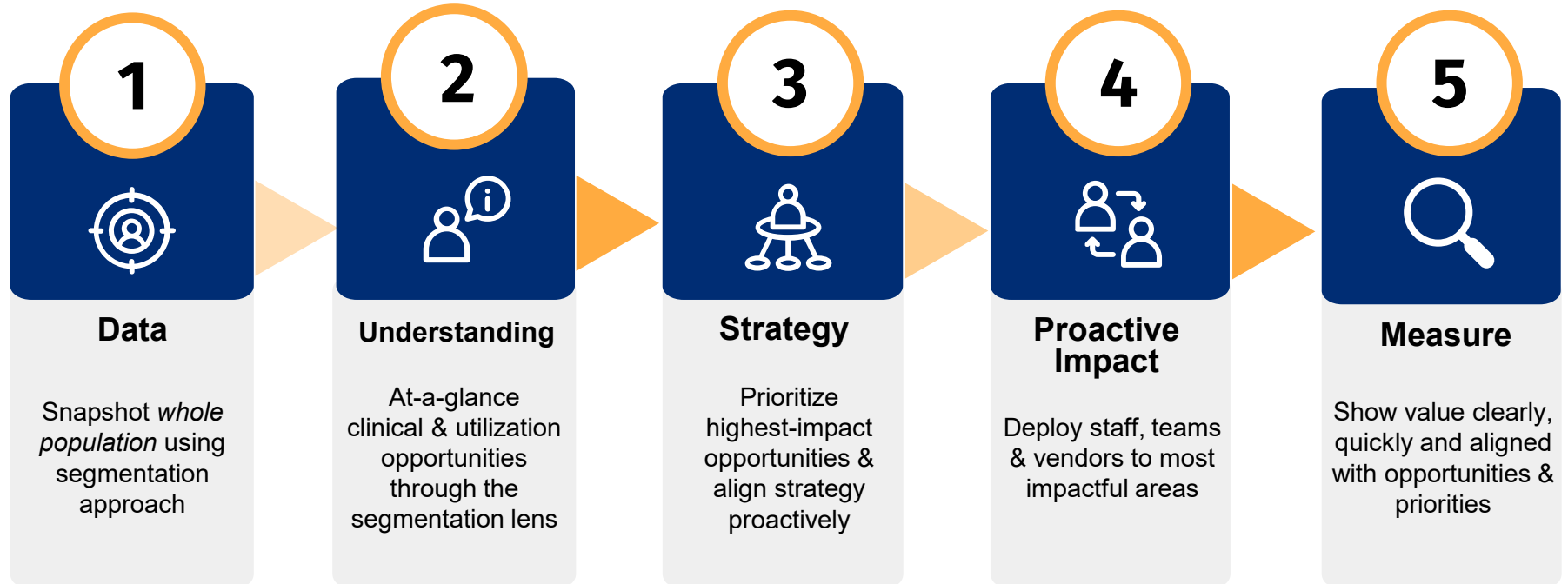


Regulatory & Governance Requirements

Vendors, Systems & Data

Partner Providers, Hospitals & Community Resources

Our Approach



1

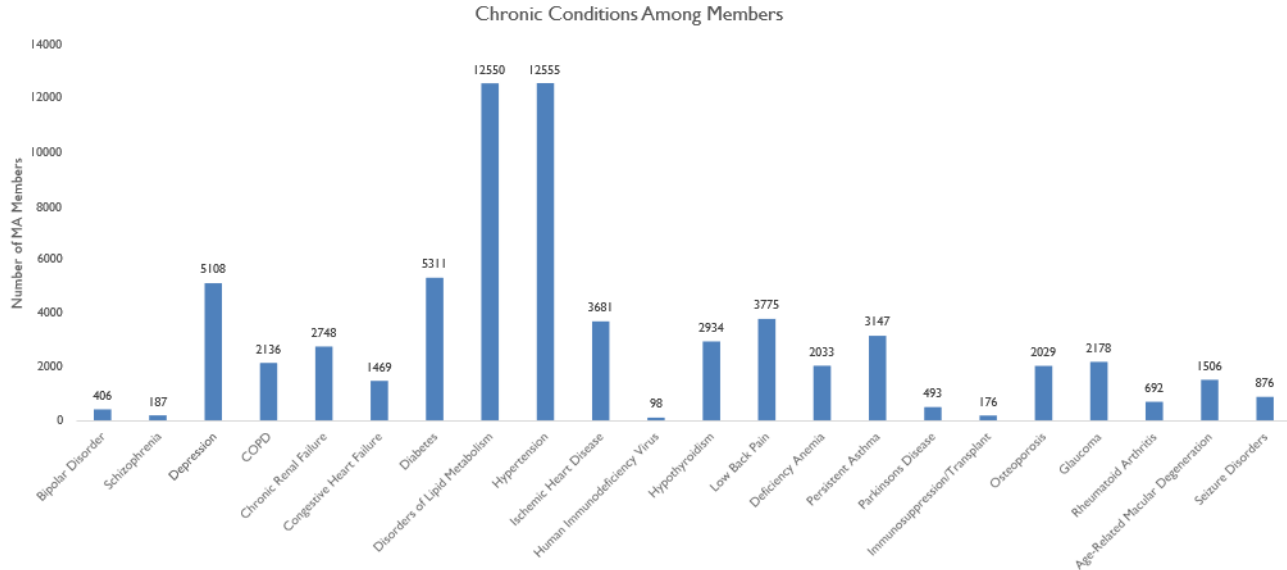


Data

Snapshot *whole population* using segmentation approach

Segment-driven Analytics

Previously, segmentation was through a disease management lens:



1

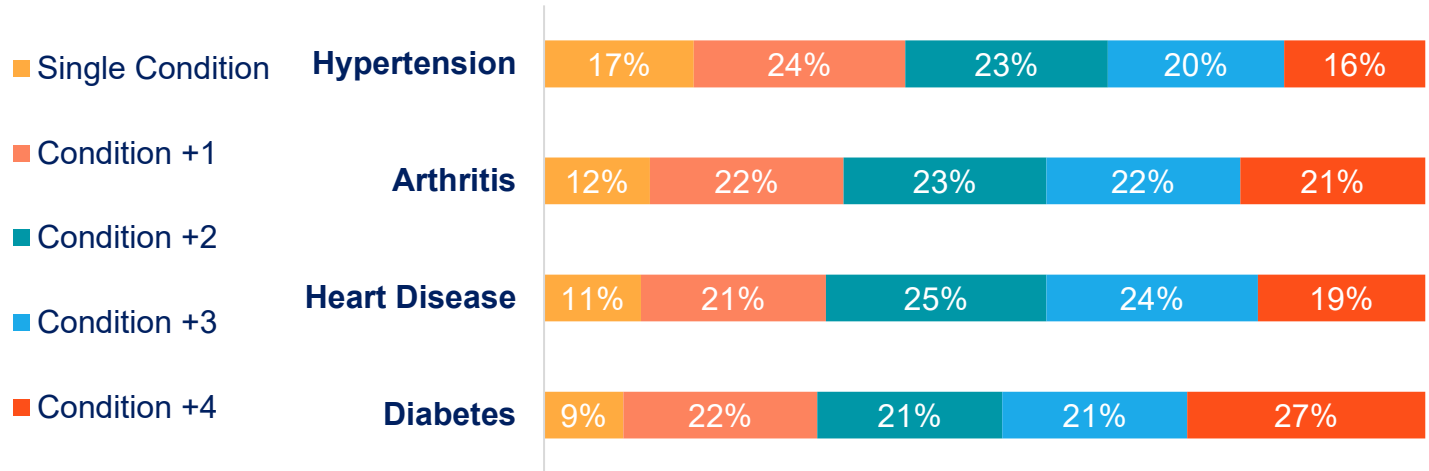


Data

Snapshot *whole population* using segmentation approach

Segment-driven Analytics

Chronic condition segmentation methodology misses the bigger picture:



1



Data

Snapshot *whole population* using segmentation approach

Segment-driven Analytics

Complexity & risk-based patient need groups allow for clear alignment to action:



1



Data

Snapshot *whole population* using segmentation approach

Segment-driven Analytics

- Delivered demographic, medical and pharmacy datasets for each population to JH Health Solutions team
- Normalized, processed through Illustra Health, and QA'd output
- Created a PNG-driven view across all our populations
- Applied Solutions' internal algorithms to overlay:
 - NCQA requirements
 - HEDIS & other quality measures
 - Opportunity areas
 - Population health best practices

Patient Segmentation Summary Across LOBs

22% of MA population & 60-68% of others

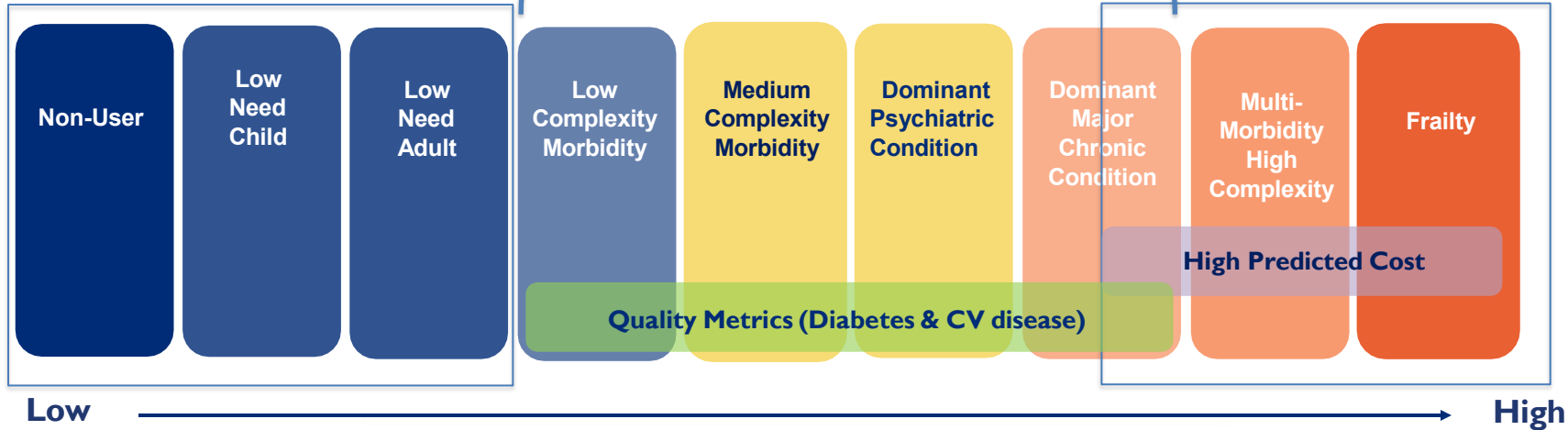
- Low utilization and cost
- Ensure adequate PCP care

20-30% of population

- Mostly outpatient care for chronic conditions; very few admissions & readmissions
- Meaningful opportunity for disease management

46% of MA population & 12-15% of others

- Multiple chronic conditions & health needs
- Most cost, hospitalizations & readmissions
- High predicted costs & readmission risk



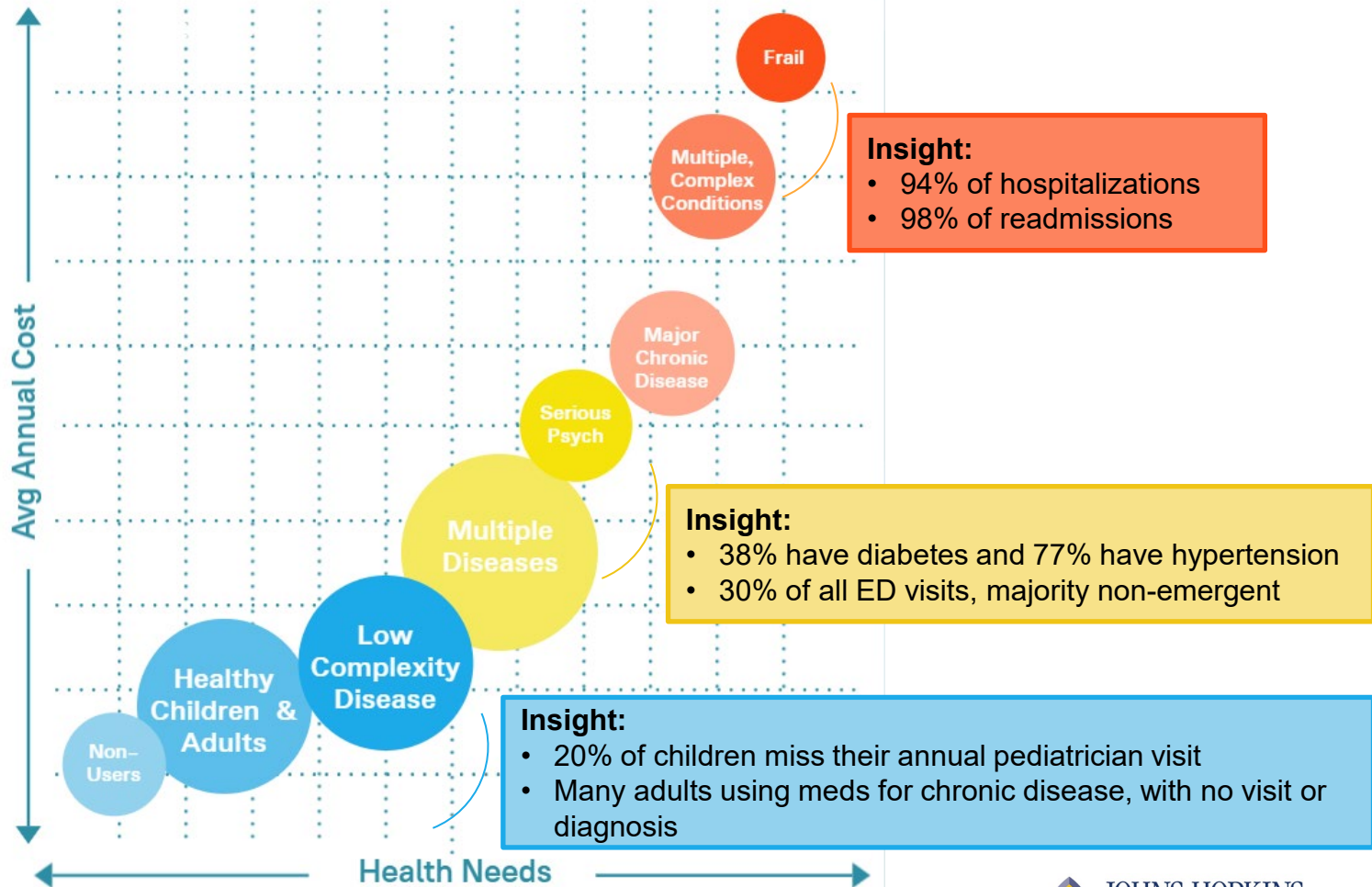
Health Needs

2



Understanding

At-a-glance clinical & utilization opportunities through the segmentation lens

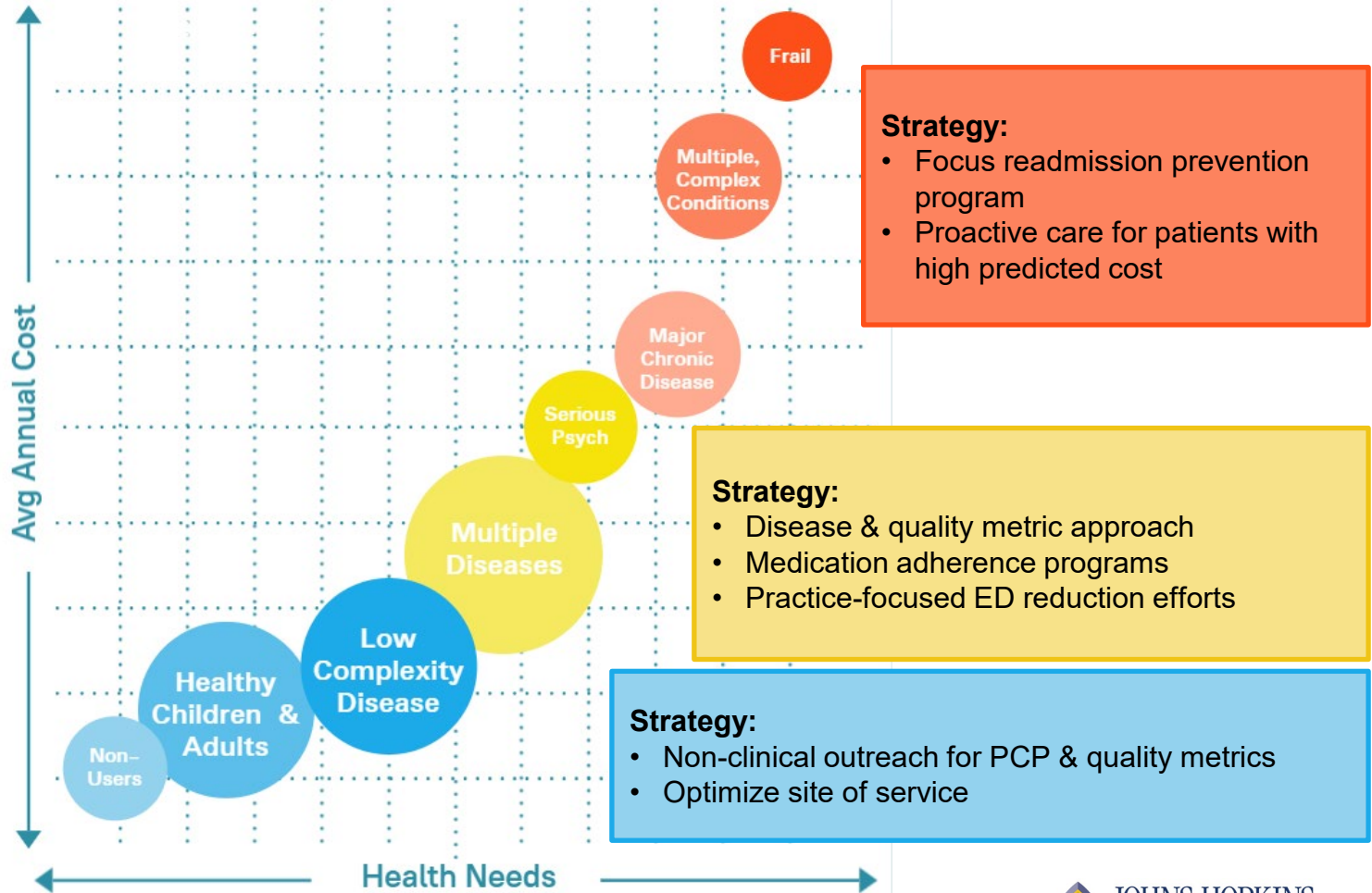


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Strategy

Prioritize highest-impact opportunities & align strategy proactively

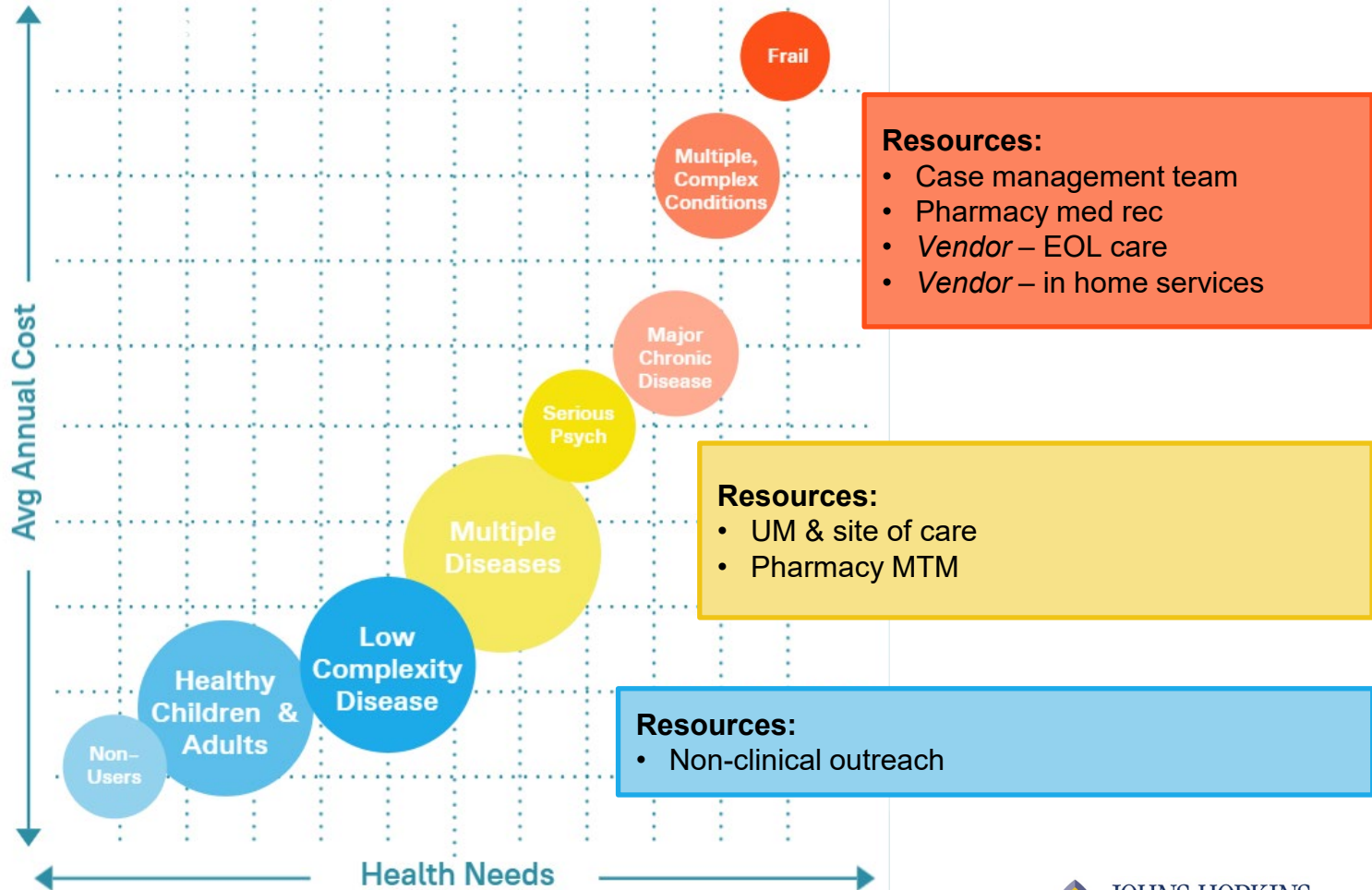


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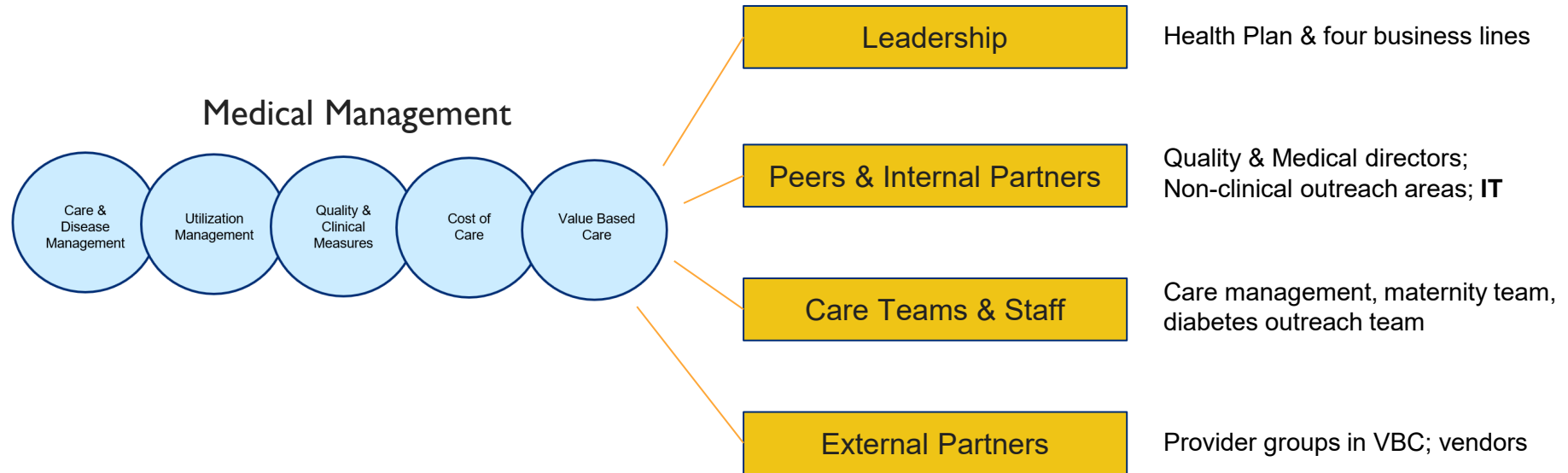


Proactive Impact

Deploy staff, teams & vendors to most impactful areas



Strategic Alignment & Communications






4



Proactive Impact




Deploy staff, teams & vendors to where they can be most effective

	Healthy & Low-Need Members	Medium Need & Chronic Disease	Multiple Complex Disease & Frail
 Start	Non-clinical outreach to ensure adequate pediatrician & PCP care; address quality gaps if needed	Dedicated support for patients w/ chronic disease, living in high-poverty areas	Care management focus on predicted high cost with identified opportunities
 Stop	Clinical/nursing outreach calls to relatively healthy patients (re-deploy to medium & high-need)	Readmission prevention calls – low impact	
 Maintain		Quality metric focused outreach, w/ diabetes priority High-risk maternity program, for Medicaid	Readmission prevention calls EOL care support (vendor)

Clinical Alignment: Maternity Program

Near-term wins:

- 1) Meet state program enrollment goals w/ no net new staff
- 2) Double down on PPC visit quality measure

	Healthy & Low-Risk Pregnancies	High Risk & Complex Pregnancies
 Start	Non-clinical outreach for state's MPRA & MOM programs PPC* Visit scheduling support	Clinical focus on high-risk women w/o OB access
 Stop	Clinical outreach for patients with established OB care	
 Maintain	Welcome kits, educational mailers	SUD identification & referrals

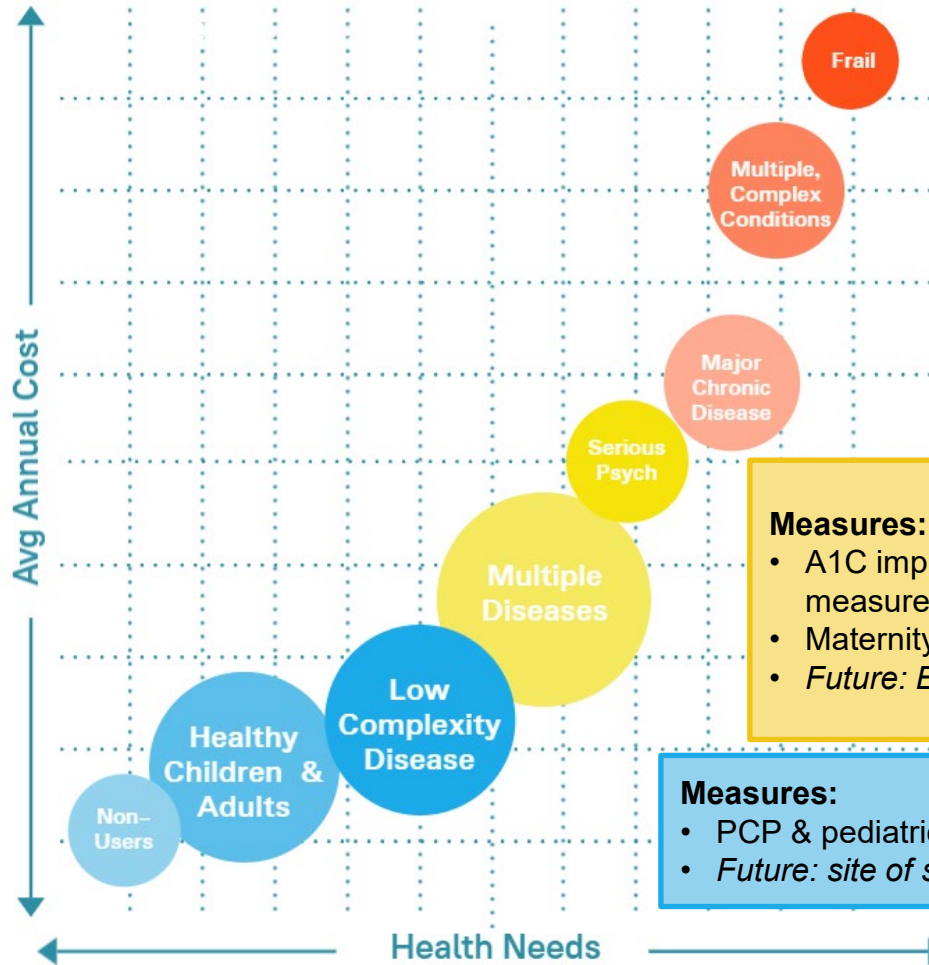
*PPC = Postpartum Care Visit Rate; a Maryland Medicaid VBC priority

5



Measure

Show value clearly, quickly and aligned with opportunities & priorities



Measures:

- Readmission rate
- Among the target patients:
 - (1) Engagement
 - (2) # of care gaps closed
 - (3) cost avoidance

Measures:

- A1C improvement & other diabetes quality measures
- Maternity outcomes, for Medicaid program
- *Future: ED visits*

Measures:

- PCP & pediatrician visit rates
- *Future: site of service*

5



Measure

Show value clearly,
quickly and aligned
with your
opportunities &
priorities

Focused Approach, Significant Results

Diabetes Quality Outreach

18% improvement in A1C <9 measure*

21% growth in blood pressure control

4% uptick in eye exam adherence*

High Risk Maternity Program

Post-partum visits increased by 18%

More prenatal visits, pediatrician appointments and WIC applications

50% drop in anxiety & self-blame concerns; fewer findings in Edinburgh assessment

Readmissions Intervention

Members in CM were less likely to be readmitted (11% vs.13%)

Members engaged in CM were more likely able to follow-up with their provider (76 vs 56) and half as likely to be readmitted (9% to 19%)

Estimated savings within 1 year: \$.08-1.3M

Qualitative Results

- Eliminate redundancy between vendors & internal teams
- Clinical staff working at 'top of license'
- Improved Patient Engagement and Satisfaction (fewer haphazard touches)
- Enhanced Coordination of Care
- Increase in % of members touched
- Ability to layer in social needs support + Medicaid maternity requirements w/o additional hiring

Summary & Wrap up

- Clinical leadership redefined & executed a proactive strategy to improve population outcomes, using a structured, segmentation-driven approach
- Holistic lens allowed the team to identify areas of duplication, re-deploy staff and teams, and achieve rapid progress in disease-management outcomes
- Beyond the data, communication has been key – including the what, why and how of the new strategy



Questions?

For more information, please contact us at acginfo@jh.edu or visit hopkinsacg.org