

Smarter Care for Mental Health

Improving Outcomes for Individuals with Mental Illness

Karen Parrish
Vice President Public Sector Industry Solutions, IBM

John Bardi
Vice President Government Affairs, Otsuka

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The Smarter Care Vision



Systems of care transformation driven by multiple forces

Care delivery evolution

Expectations for greater value, quality and better outcomes at affordable cost

17.6%

U.S. GDP consumed by healthcare

4X

seniors unable to care for themselves by 2050

Focus on the individual

Unprecedented amounts of data creating opportunity for new insights

2.5 quintillion

bytes of data created every day

1 billion

Health app downloads by 2016

Business model convergence

New partnerships forming to meet escalating demand for services

1/2 trillion

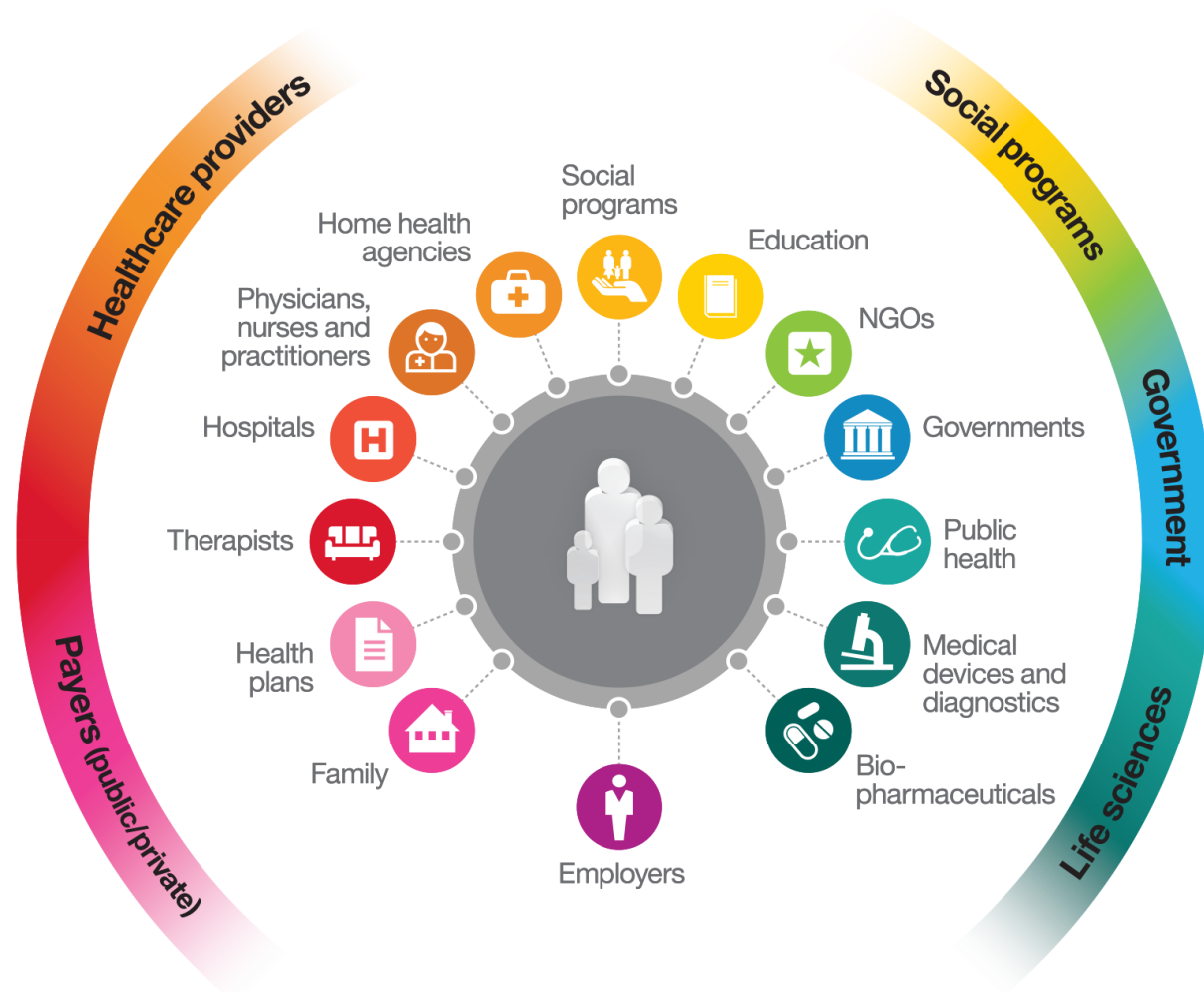
avoidable annual costs

9 million

preventable deaths

Stakeholders are collaborating across boundaries to intervene

Communities of care



GOV.UK

Department of Health

Partnerships for Older People Projects (POPPs)

Proactive case coordination across services led to:

47%

reduction in overnight hospital stays

29%

fewer Emergency Department visits

Leveraging data and technology to advance care management

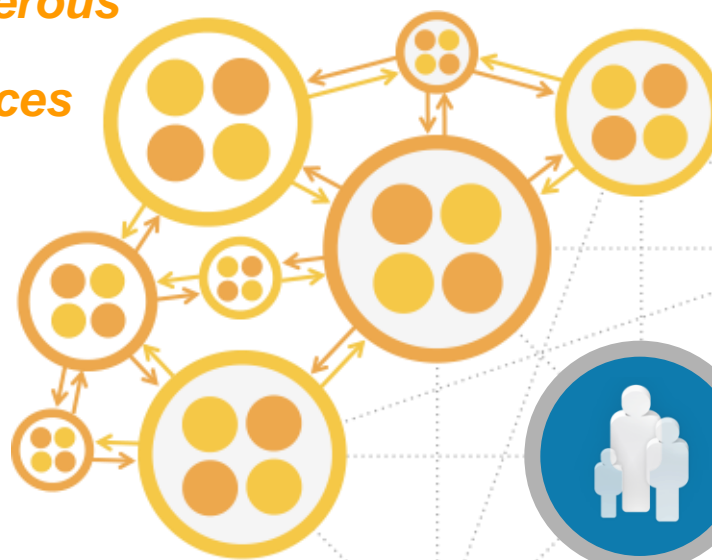
90%

*of world's data
created in last
2 years*

31.7%

*growth in big
data market
by 2016**

*New and
numerous
data
sources*



New platforms

*Analytics
innovations*

New insights

*IDC Worldwide Big Data Technology and Services 2012-2016 Forecast, doc #238746, Dec 2012

Applying new insights from social and clinical analysis

Segment populations by risk profiles



Inform care approaches with evidence

Prevention

Educate and engage to change attitudes and behaviors that impact health

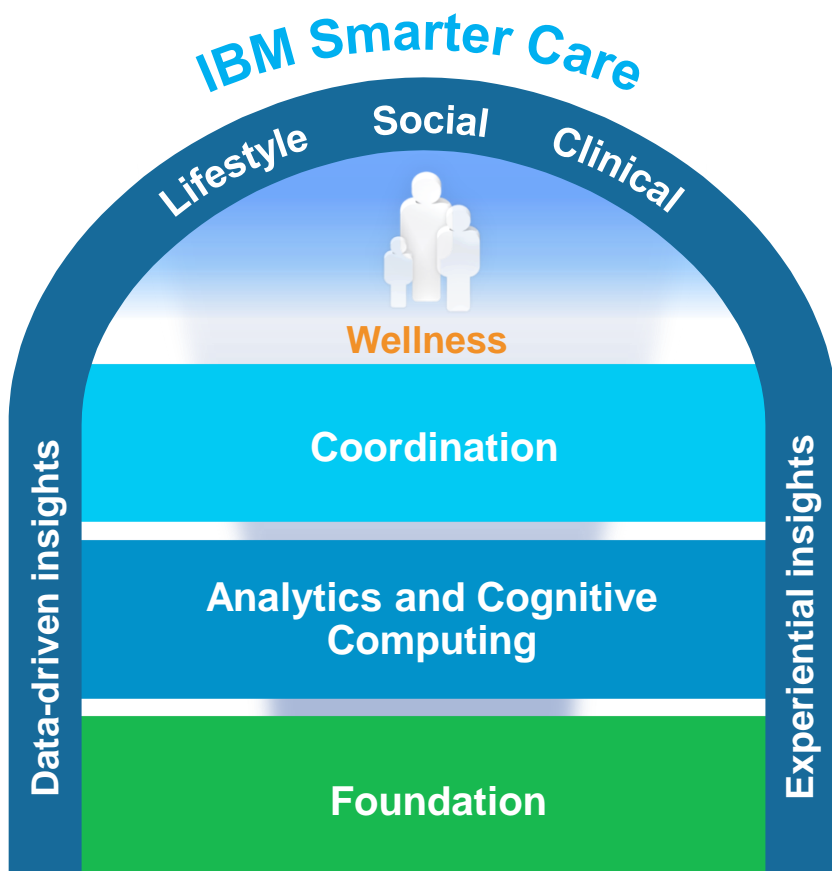
Early intervention

Promote routine screening and healthy lifestyles to defer disease onset and manage risk

Care Management

Deliver the right care, at the right time, in the right place, with the right resources to improve outcomes and optimize resources

The path forward: IBM Smarter Care uncovers valuable insights



Lifestyle

choices have direct impact on an mental and physical wellness

Social

determinants have direct impact on overall health and well being

Clinical

factors such as medical symptoms, history, medications etc are indicators of an individual' s health

Making It Real: Smarter Care for Mental Health



Social and economic challenges of mental health

High percentage of **suicides** connected to depression / mental health problems

~**10%** of individuals discharged from state psychiatric hospitals will be readmitted within 30 days;
~**20%** will be readmitted within 180 days

Overall **D** performance for United States in 2009...no change compared to 2006

There was a **\$3.4 billion reduction** in State funding for mental health from 2009-2011

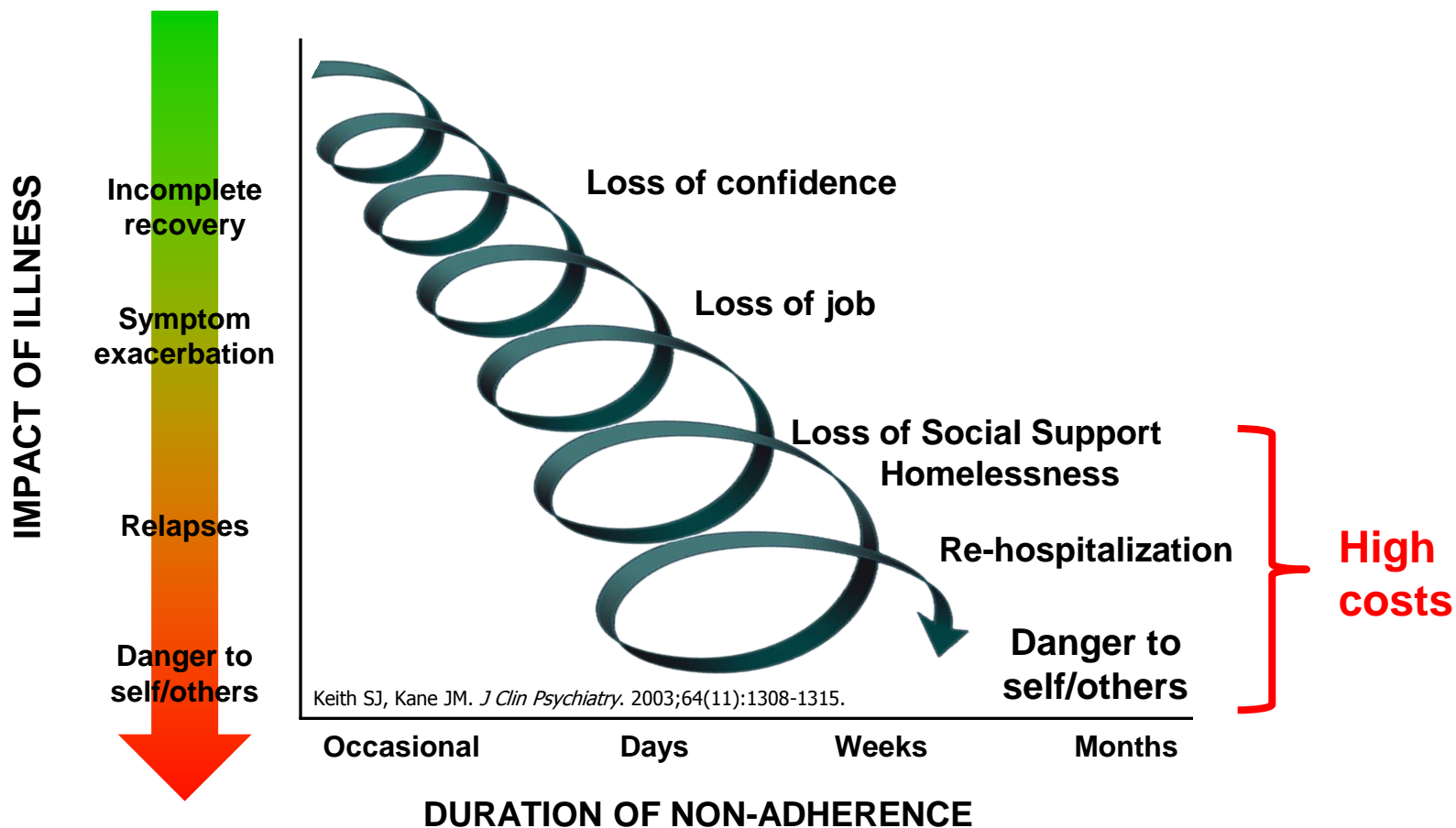
20% of mentally ill fall below the poverty line, **7% higher** than the national average

20% of State/Local Health programs' budgets already been allocated to mental health

Total annual cost of mental illness in jails and prisons is estimated at **\$15 billion**

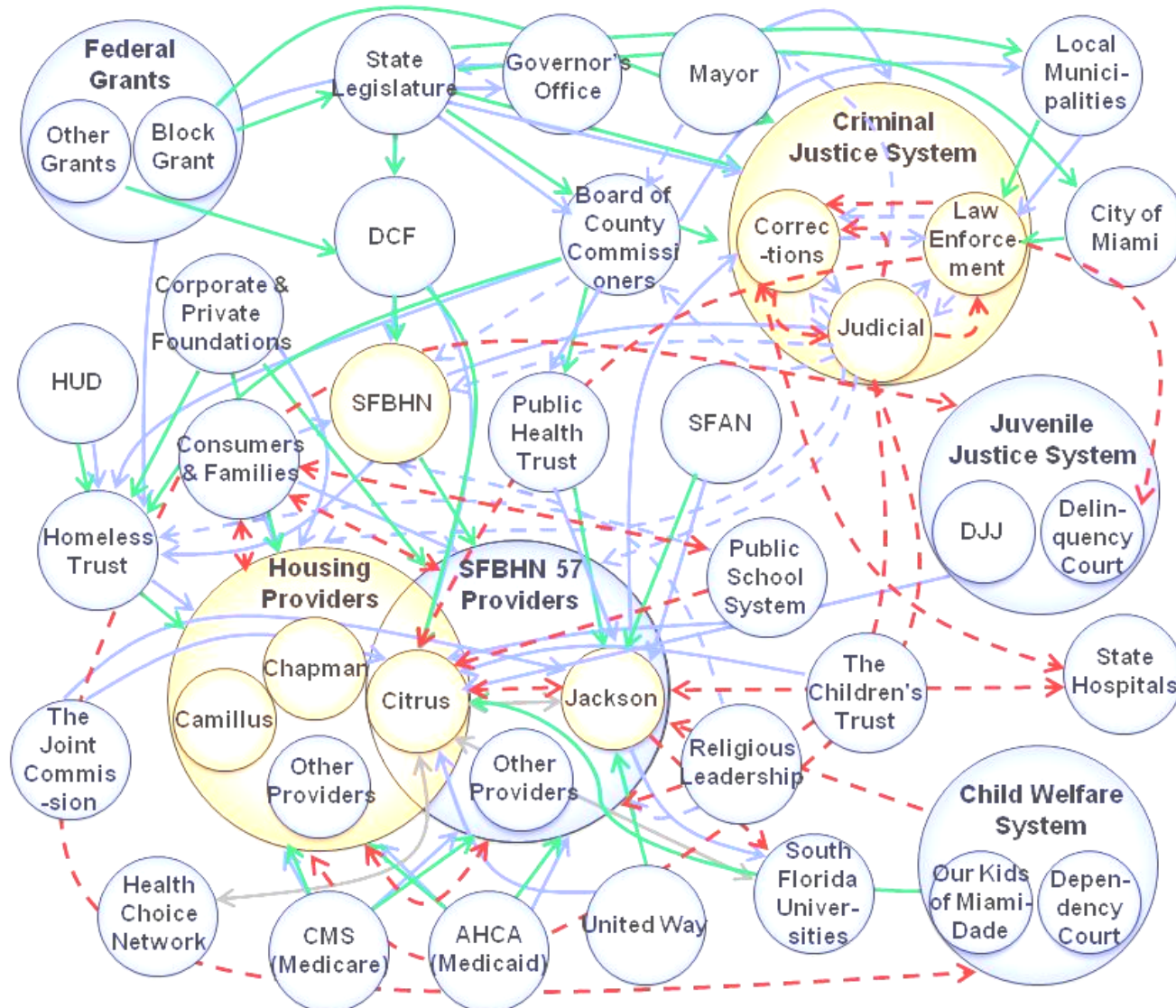
20% to 25% of the homeless population in the United States suffers from some form of severe mental illness

We need to break the negative cycle of patients in crisis



People with serious mental illness still
die 25 years younger than other Americans

Current state assessment of the ecosystem provided opportunities for solution development in focused areas



The Solution: Otsuka Digital Health (ODH)

Smarter Care for Mental Health



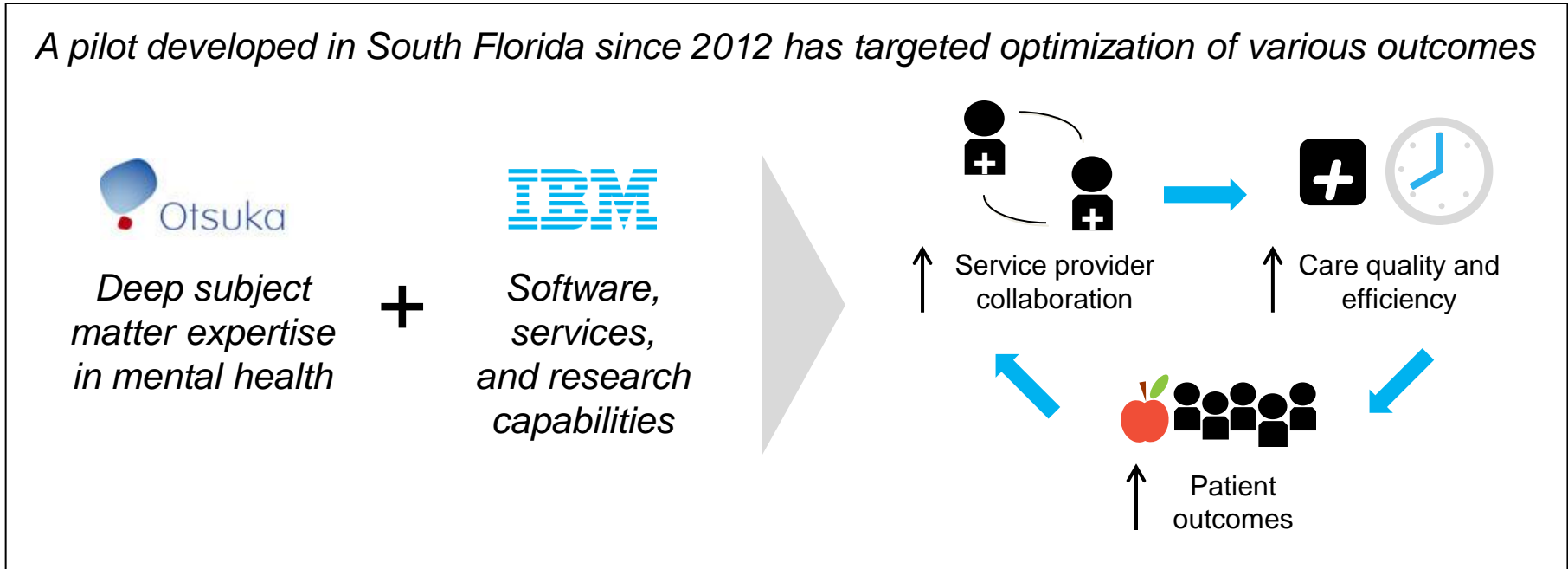
At 9.1% or ~170,000 adults, Miami Dade county has the highest percentage of persons with SPMI of any U.S. urban community



We conducted a 16-week diagnostic of the Miami-Dade mental health ecosystem:
97 Interviews, 40+ hours of observations, across 9 organizations

In March 2014, Otsuka and IBM announced a new solution to improve mental health collaboration

A pilot developed in South Florida since 2012 has targeted optimization of various outcomes

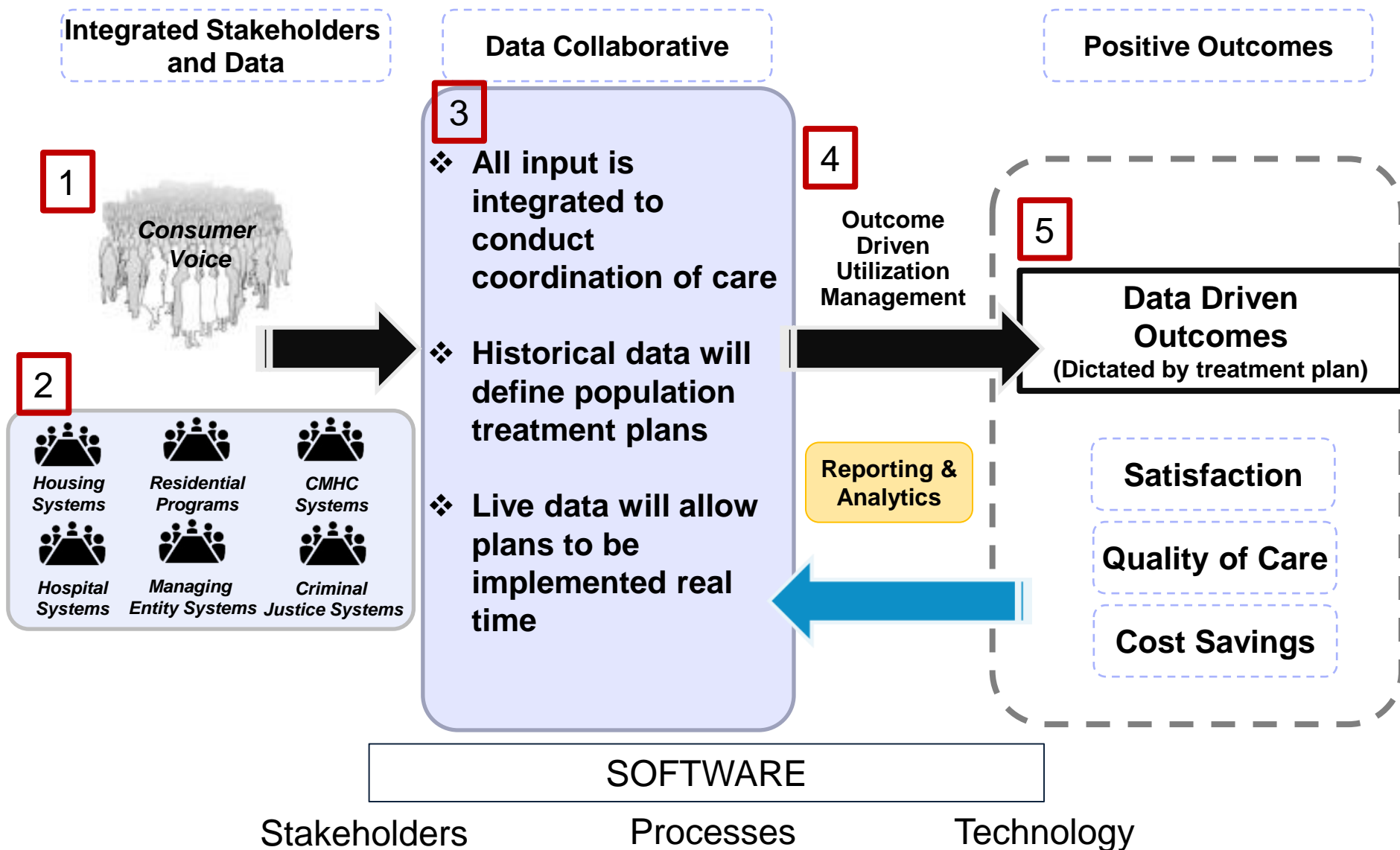


We invited Otsuka and IBM to conduct this pilot because of their innovative approach to improving efficiencies within our mental health system.

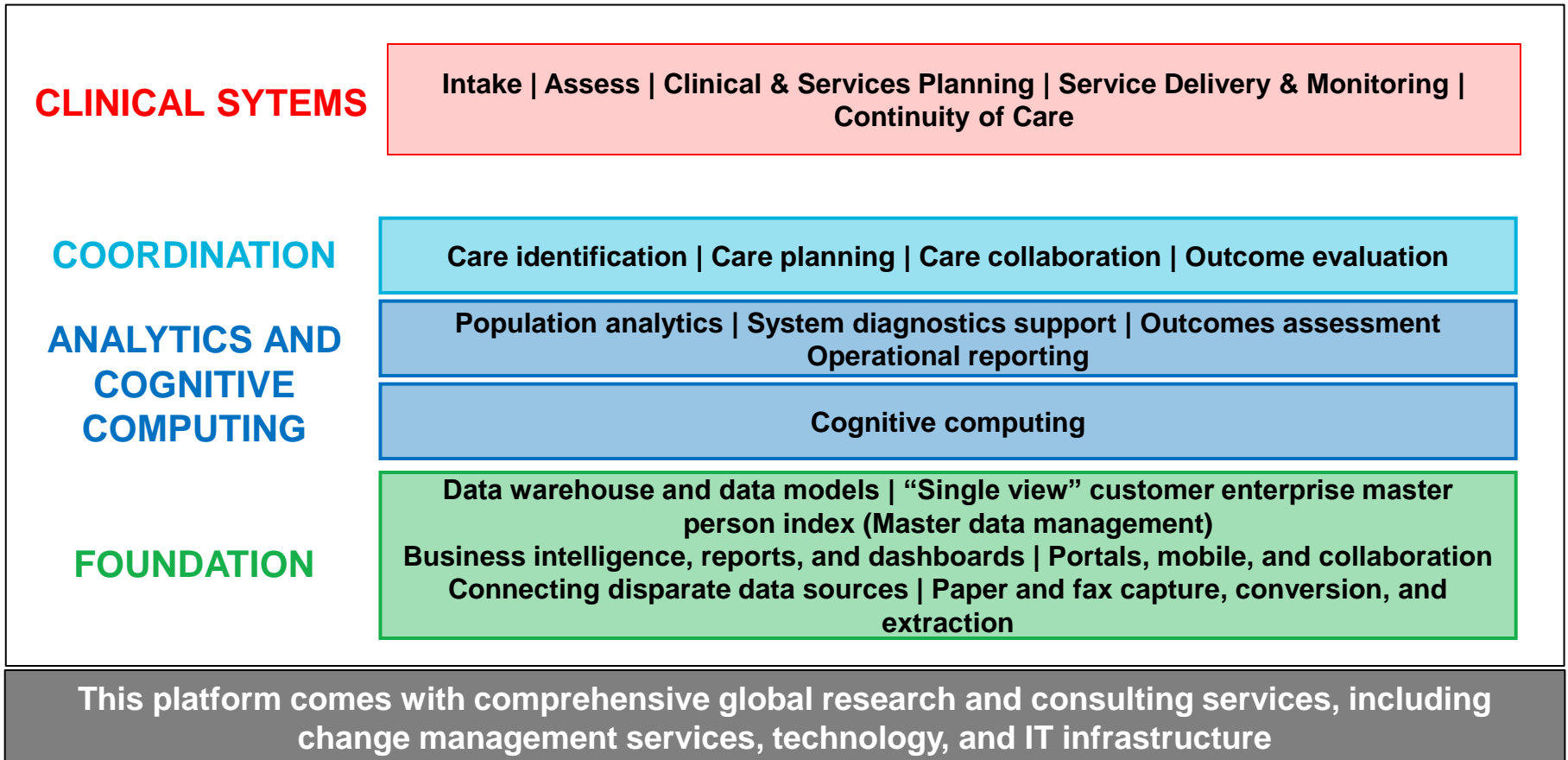
- John W. Dow, President and Chief Executive Officer of the South Florida Behavioral Health Network, Inc.



A transformational future state



The solution is based on a market-leading platform of care management, analytics, and foundation technologies



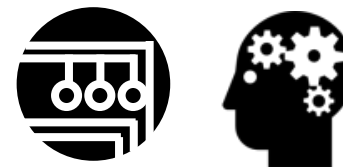
Smarter care for mental health is about gaining insights from clinical and behavioral data to identify opportunities for earlier interventions



Unmatched scope of capabilities (insights and analytics, etc.) for mental health ecosystems



Deep clinical expertise in mental health



Based ***on market-leading technologies*** and ***industry expertise***

Thank you!

Questions?