



Innovation

WHERE, HOW, AND WHY WE INNOVATE

Leadership Institute

Where we are

126

Locations, Including Hospitals

1,869

Licensed Hospital Beds

1,206

Providers

20,991

Mission Partners

222,782

Home Health Annual Visits

1,617,245

Outpatient Visits

1,795,627

Physician Enterprise
Office Visits

64,652

Inpatient Admissions

2,534

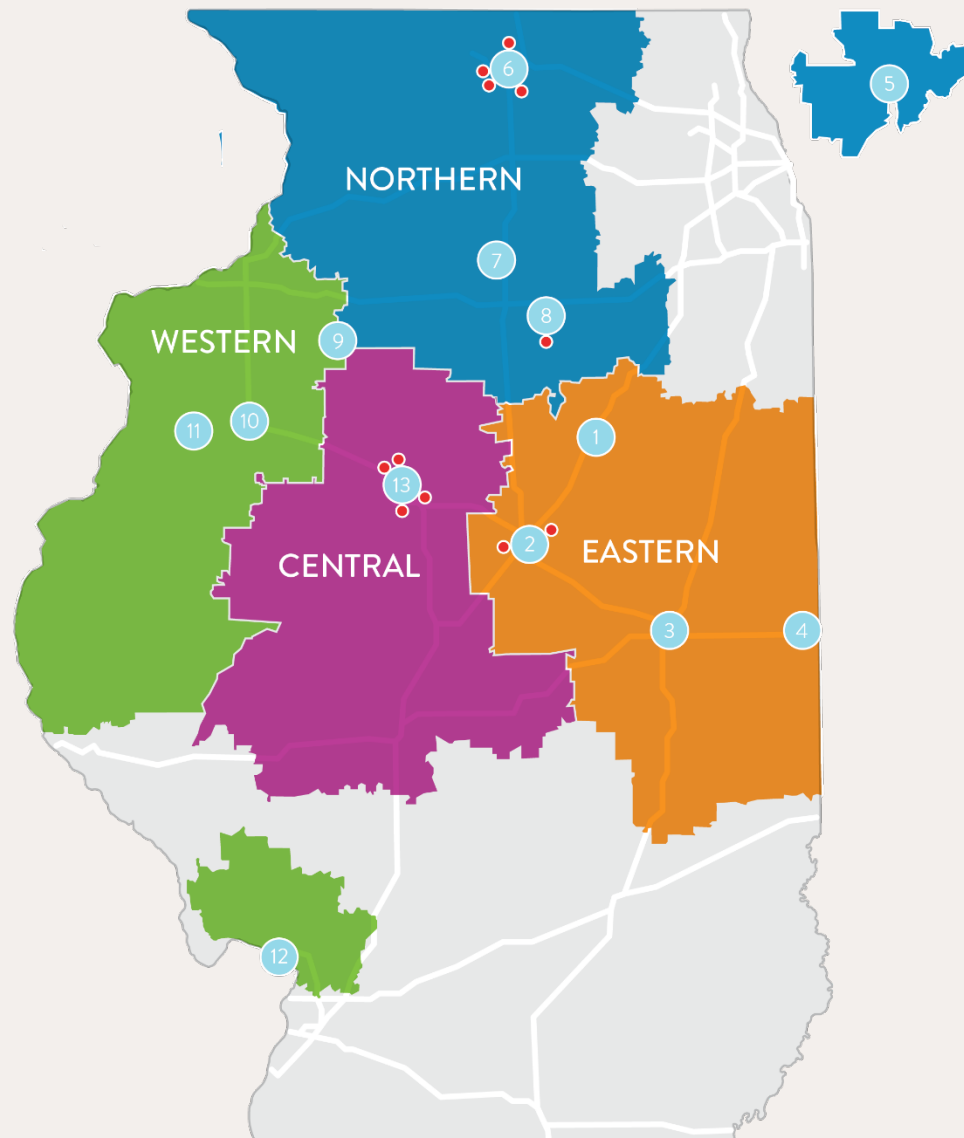
Hospice Patients

785,888

Persons Served

\$2.6 Billion

Net Revenue



EASTERN REGION

1. **OSF HealthCare Saint James—John W. Albrecht Medical Center**
Pontiac, Illinois
2. **OSF HealthCare St. Joseph Medical Center**
Bloomington, Illinois

OSF Center for Health — Nord Farms
Bloomington, Illinois

OSF Center for Health — Fort Jesse
Normal, Illinois
3. **OSF HealthCare Heart of Mary Medical Center**
Urbana, Illinois
4. **OSF HealthCare Sacred Heart Medical Center**
Danville, Illinois

NORTHERN REGION

5. **OSF HealthCare St. Francis Hospital & Medical Group**
Escanaba, Michigan
6. **OSF HealthCare Saint Anthony Medical Center**
Rockford, Illinois

OSF Center for Health — Belvidere
Belvidere, Illinois

OSF Center for Health — Rock Cut
Loves Park, Illinois

OSF Center for Health — Parkview
Rockford, Illinois

OSF Center for Health — State Street
Rockford, Illinois
7. **OSF HealthCare Saint Paul Medical Center**
Mendota, Illinois
8. **OSF HealthCare Saint Elizabeth Medical Center**
Ottawa, Illinois

OSF Center for Health — Streator
Streator, Illinois

WESTERN REGION

9. **OSF HealthCare Saint Luke Medical Center**
Kewanee, Illinois
10. **OSF HealthCare St. Mary Medical Center**
Galesburg, Illinois
11. **OSF HealthCare Holy Family Medical Center**
Monmouth, Illinois
12. **OSF HealthCare Saint Anthony's Health Center**
Alton, Illinois

CENTRAL REGION

13. **OSF HealthCare Saint Francis Medical Center**
Peoria, Illinois

OSF HealthCare Children's Hospital of Illinois
Peoria, Illinois

OSF Center for Health — Morton
Morton, Illinois

OSF Center for Health — Pekin
Pekin, Illinois

OSF Center for Health — Glen Park
Peoria, Illinois

OSF Center for Health — Route 91
Peoria, Illinois

INDEPENDENT AFFILIATES

Illinois Valley Community Hospital
Peru, Illinois

Perry Memorial Hospital
Princeton, Illinois

Rochelle Community Hospital
Rochelle, Illinois

St. Margaret's Hospital
Spring Valley, Illinois

Freeport Health Network
Freeport, Illinois

“

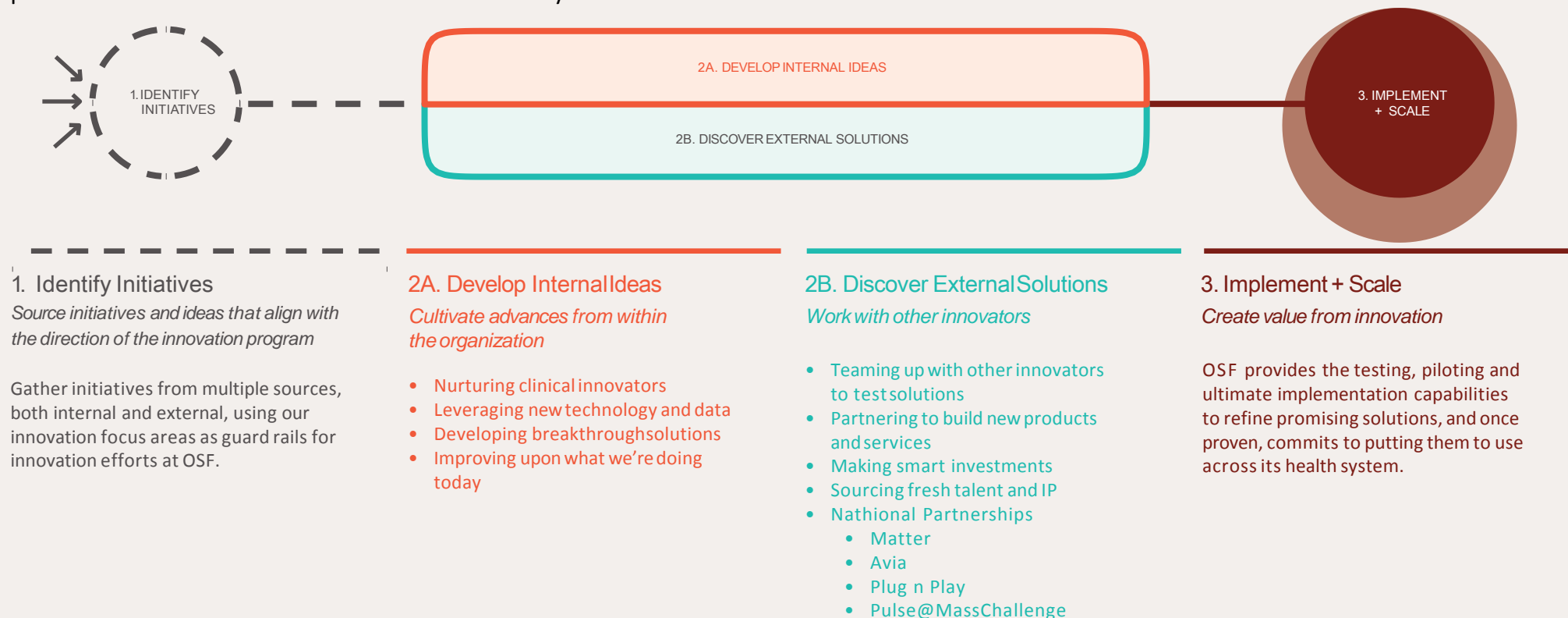
The process of translating ideas that align with our vision of transforming health care into value for the benefit of the patients and communities we serve.

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How we innovate

Innovation at OSF will unfold in four distinct but interconnected and mutually-reinforcing parts. Each part operates under a common vision and focus, integrates a diverse set of Mission Partners and external partners, and has distinct activities and processes to achieve and scale success across the system.



Work with other innovators

We understand the value of fresh perspectives, and seek to work with innovators outside our walls. OSF partners with start-ups, corporations, universities and other hospitals to maximize their solutions using its existing assets. All external solutions will be assigned an OSF Mission Partner with relevant expertise who will mentor and champion the solution, providing clinical feedback throughout the innovation process.

CLOSE COLLABORATIONS

We team up with other innovators to test solutions.

Pulse@MASS CHALLENGE

Boston Based accelerator brings a start-up friendly approach with a strong curriculum based program accelerating the impact of digital health solutions

Plug n Play

A global innovation platform connecting startups to corporations, and invest in over 100 companies every year

MATTER

A Chicago-based incubator that allows start-ups to rent space, network with corporate partners, and seek piloting opportunities.

We partner to build new products and services.

ARCHES

Applied Research for Community Health through Engineering and Simulation (ARCHES) is a partnership between clinicians and engineers from University of Illinois to stimulate innovation.

AVIA

OSF is a member of AVIA cohorts, which identifies start-ups that are addressing challenges relevant to providers. They select the most relevant start-ups and organize demos with providers.

BUDDING RELATIONSHIPS

We make smart investments.

OSF Ventures

\$75 million fund that invests in a broad spectrum of companies, which improve patient outcomes or lower healthcare costs. Tends to fund later-stage companies.

We source fresh talent and IP.

Bradley University

Steady source of new talent and ideas for innovation initiatives.

University of Illinois College of Medicine

Residency program, talent, and IP for innovation initiatives and OSF.

University of Illinois College of Biomedical Engineering

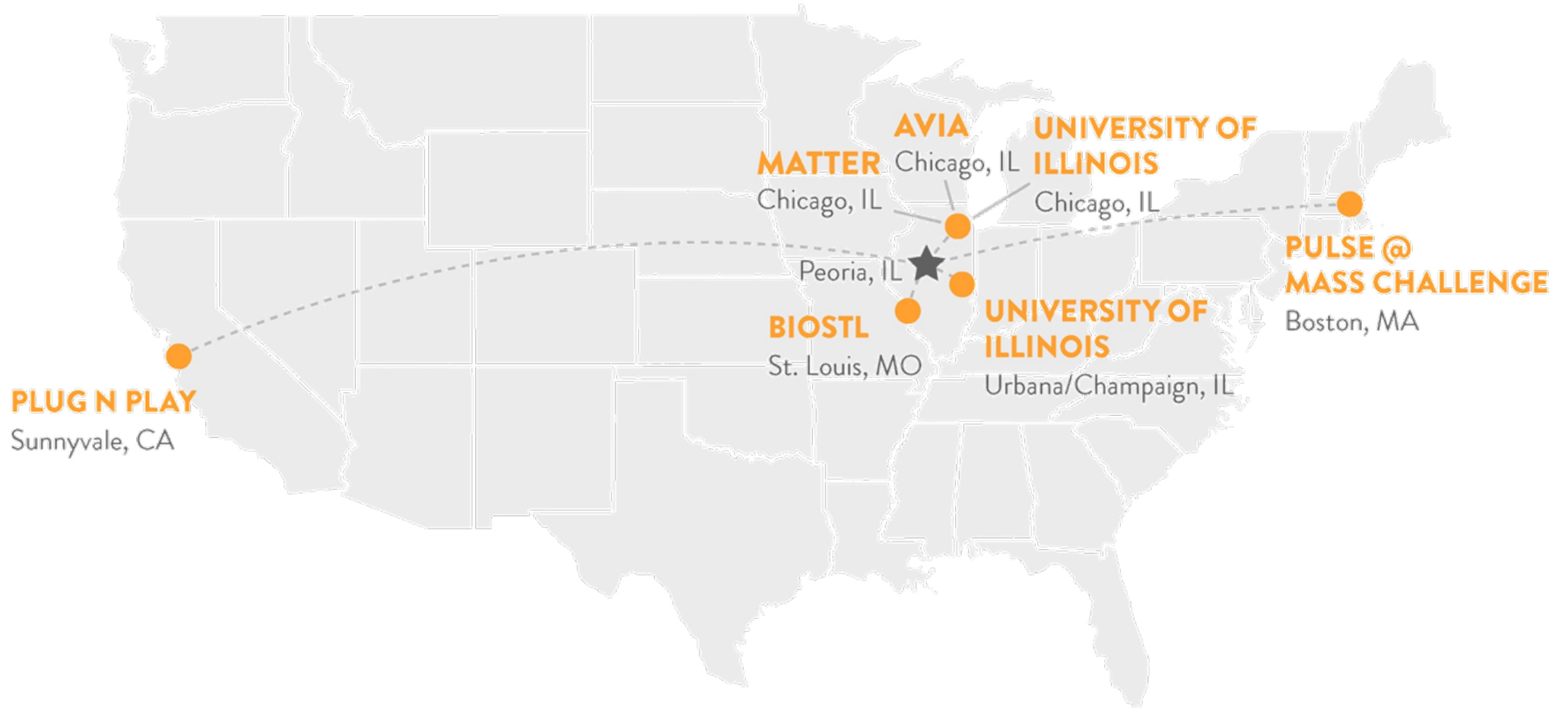
Graduate and undergraduate internship program

University of Illinois Carle Medical School

Teaching innovation and entrepreneurship to physicians

WHERE

OSF Innovation PARTNERSHIPS



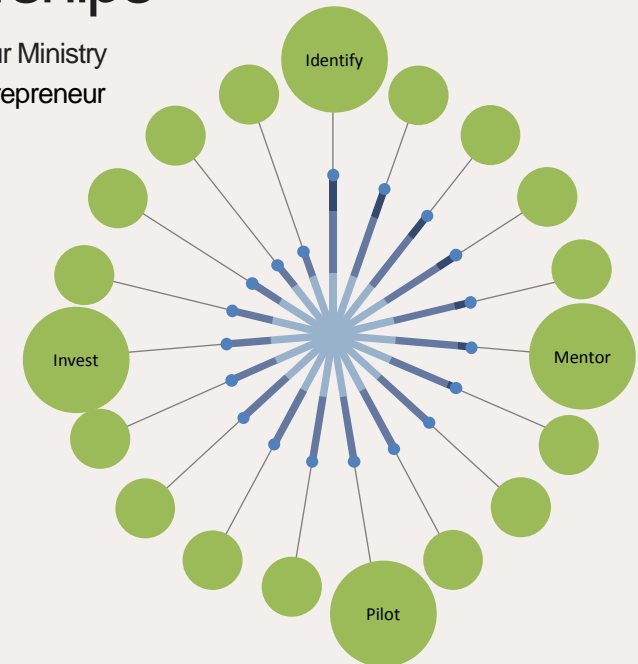


Vetting Partnership Opportunities

- Alignment with strategic priorities
- Potential partners – strong leadership
- Regional connections – potential risks
- Identifying an executive sponsor
- Internal clinical champions
- Initiate our Information Technology (not core EMR)
 - security, legal, compliance and feasibility.

Mentoring Partnerships

- Identify subject matter experts within our Ministry
 - Share the same passion as the Entrepreneur
 - Specific knowledge that adds value to the venture
 - Clinical, financial, procurement or technology experts.
- Our Partnership team tracks the progression of each company





Integrated Telepsychiatry Services

Model embeds clinicians within patients' existing health care teams. The patient sees the same clinician during each of their visits. This seamless integration provides continuity of care and is essential to improving patient outcomes.

ReGroup Vision:

Eliminate the mental health service availability gap in the United States, by bringing the world's strongest network of high-quality clinicians to the institutions and individuals who need them, via best-in-class products and services that extend reach, increase productivity, and improve outcomes.

47

Clients in 5
Key Sectors

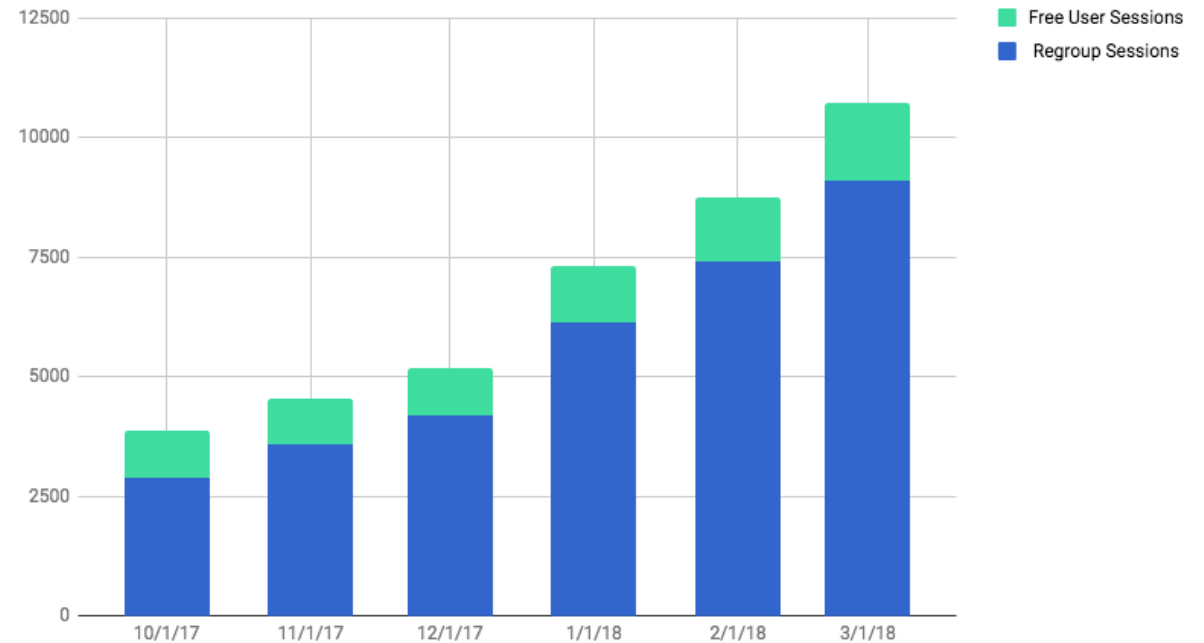
34%

of our Clients
Expand their
Services in the
First Year

89

Full Time &
Part Time
Psychiatrists

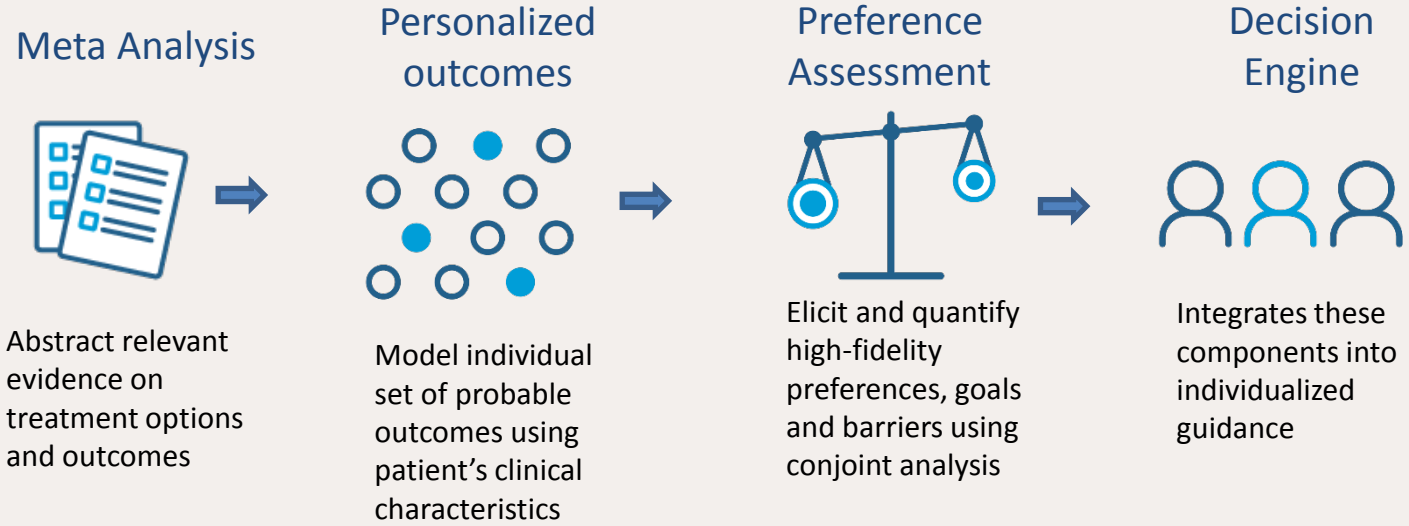
Total Patient Sessions by Month



WiserCare

Proper Advance Care Planning (ACP)—combining informed reflection with actionable and accessible documentation—can ensure that patients receive care that aligns with their wishes, designate a proxy, and reduce conflict among their families and care teams. Unfortunately, only a minority of patients have plans today.

- WiserCare helps patients and their care teams make smarter decisions in less time
- Uses a proprietary algorithm to elicit patient preferences and compute individualized outcomes for each treatment option. Care teams receive patient preferences in advance.
- 40+ decision modules cover the patient journey from preventive care to advance care planning
- Founded in 2014 by Christopher Saigal, MD, MPH, Vice Chairman of Urology at UCLA and medical decision making expert
- Several health system and AMC partners across the US with average completion rates over 70%, positive impact on quality, patient satisfaction/Net Promoter Score™, and utilization
- 9 full-time employees





Pieces Technology Inc. uses clinical insights, advanced analytics, and innovative engineering to predict positive clinical outcomes.

- Based in Dallas, Texas
- Incubated at Parkland Center for Clinical Innovation, where we raised \$50M+ in grants and authored 29 peer-reviewed publications
- Pioneered use of social determinants of health outcomes in clinical models
- Pieces Technologies became a commercial enterprise in 2016
- Currently 45 employees
- Pieces solutions used in over 14 hospitals and 80+ community-based organizations



Formal Innovation Partnerships

Upon completion of vetting partnership opportunities OSF may enter into a contracted innovation partnership that may include one or more of the following actions:

- Usability Services - Utilizing testing refers to evaluating a product or service by testing it with actual end users with the goal of identifying usability problems, useful data and to determine end user satisfaction
- Clinical Trials - A branch of healthcare science that determines the safety and effectiveness (efficacy) of medications, devices, diagnostic products and treatment regimens intended for human use
- Pilots - A short term experiment designed to test logistics, prove value and reveal deficiencies before large scale implementation
- Implementation - Partnerships that have resulted in successful pilots and or previous implementations



OSF Partnerships

Consumer access



InQuicker is a patient online self-scheduling and discharge solution

Focus Area: Radical Access



Simplify Provider Data Management

Phynd enables consolidated provider information from multiple sources, curate information to improve its value for clinical, financial and search purposes, and securely share it with those who need it

Focus Area: Radical Access



Well is a powerful patient communications platform that makes going to the doctor as easy as meeting up with a close friend

Focus Area: Radical Access

Virtual Care



Home Monitoring Equipment

Focus Area: Aging in Place



Epharmix provides clinically validated digital interventions by automating routine outreach to collect condition-specific patient-reported outcomes from high-risk and rising-risk patients.

Focus Area: Radical Access



Care Management application that coordinates care to reduce costs, improve outcomes, and drive a 5-star patient experience

Focus Area: Radical Access



IRIS application puts social services on a single technology platform that integrates with health care system care management

Focus Area: Social Determinants



SafeinHome provides discreet wireless sensors for homes to track activity. The system linked to the sensors sends real-time data over it's built-in cellular network directly to your smartphone allowing the user to receive custom alerts or anytime check-ins

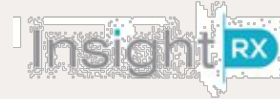
Focus Area: Aging in Place

Precision Medicine



Pieces Tech uses clinical insights, advanced analytics and innovative engineering in a cloud-based software platform that improves quality and cost of care by applying key algorithms throughout a patient's journey.

Focus Area: Radical Access



Precision Medicine. InsightRX is a cloud-based platform for precision medicine & Clinical analytics designed to individualize treatment at the point of care

Focus Area: Radical Access



Prenosis utilizes several novel microfluidic and electrical sensing technologies for its product development. Focused on **"First degree sensing"** - where the output characteristics of the sensor are modulated by intrinsic characteristics of the target entities

Focus Area: Radical Access



Genetic Screening solution for Breast and Colon Cancer

Focus Area: Radical Access

OSF Partnerships

Patient Engagement



Patient Wisdom efficiently collects, curates, segments, and shares patient stories to improve the experience and delivery of care

Focus Area: Social Determinants



Tablet real-time survey tool

Focus Area: Social Determinants



Provides tools and resources for expecting moms, kick and weight trackers, class registration and cross marketing

Focus Area: Radical Access



Patient Decision Making Tool using guidance from the best evidence to fit a patient's unique clinical situation and treatment goals

Focus Area: Aging in Place



Obesity health challenge, Healthimation blends a unique fusion of evidence-based clinical programs together with digital health technology, entertainment-grade animation, personal human interaction, and interactive learning. The adaptive mobile application puts life-changing care directly in users' hands.

Focus Area: Radical Access

Behavioral Health



SilverCloud is used by health systems and care organizations to provide clients with easy and immediate access to evidence-based and supported therapeutic solutions

Focus Area: Radical Access



Behavioral Health tele health provider

Focus Area: Radical Access

New Business Models



Augmedix gives providers a team of real-time, quality-controlled, and customized remote scribes, accessed through Glass.

Focus Area: Radical Access



Redox organizations across industries to access and transmit health care information. Our platform and services combine to deliver the most robust, full-service healthcare integration solution on the market.

Focus Area: Radical Access



Procedural Time out application

Focus Area: Radical Access



twiage is a powerful technology that streamlines workflows and accelerates life-saving care for EMS and hospital teams

Focus Area: Radical Access

Top 10 Innovation Center in the U.S.

Innovation can be as ambitious as reinventing how patients receive care and as targeted as small refinements in the waiting room experience. We need innovations both large and small to advance our focus areas.

- Local, regional and national partnerships
- OSF HealthCare the first in the world to implant BrightWater into Human
- Investigating collaboration with U.S. Air Force
- Jump Simulation leading tri-state effort to improve patient outcomes
- Received second year contract renewal
- STEM Saturday and STEM Summer Camps
- Virtual Reality to view heart disease
- First in State with free-standing ER, Building a healthier Streator
- New care models created
- Predictive care models to support early identification of disease
- Expansion of virtual care to support the health care needs of our rural communities

Modern Healthcare

THE ONLY HEALTHCARE BUSINESS NEWS WEEKLY | APRIL 10, 2017

by the
numbers

Healthcare systems accelerating innovations

Ranked by number of innovation projects

| RANK | INCUBATOR/ACCELERATOR | OWNER OF HOSPITAL OR HOSPITAL SYSTEM | NUMBER OF INNOVATIONS BEING TESTED INTERNALLY | LOCATION |
|------|---|---|---|-----------------------|
| 1 | Baylor Scott & White Health's Research Ventures | Baylor Scott & White Clinic | 2,000 | Dallas |
| 2 | Center for Technology Innovation & Commercialization | Wake Forest Baptist Medical Center | 409 | Winston-Salem, N.C. |
| 3 | Cleveland Clinic Innovations | Cleveland Clinic | 250 | Cleveland |
| 4 | Johns Hopkins Medicine's Sibley Innovation Hub | Johns Hopkins Medicine | 200 | Washington, D.C. |
| 5 | Froedtert & the Medical College of Wisconsin's Inception Health | Froedtert & the Medical College of Wisconsin Health Network | 75 | Menomonee Falls, Wis. |
| 6 | OSF HealthCare's OSF Innovation | OSF HealthCare | 50 | Peoria, Ill. |
| 7 | Brigham and Women's Brigham Innovation Hub | Brigham and Women's Hospital | 38 | Boston |
| 8 | Sheikh Zayed Institute for Pediatric Surgical Innovation | Children's National Health System | 30 | Washington, D.C. |
| 9 | Mayo Clinic Center for Innovation | Mayo Clinic | 30 | Rochester, Minn. |
| 10 | Ochsner Health System's innovationOchsner | Ochsner Health System | 20 | New Orleans |

Healthcare systems incubating startups

Ranked by the number of startups

| RANK | INCUBATOR/ACCELERATOR | OWNER OF HOSPITAL OR HOSPITAL SYSTEM | NUMBER OF START UP COMPANIES | LOCATION |
|------|--|---|------------------------------|-----------------------|
| 1 | Cleveland Clinic Innovations | Cleveland Clinic | 77 | Cleveland |
| 2 | OSF HealthCare's OSF Innovation | OSF HealthCare | 50 | Peoria, Ill. |
| 3 | Froedtert & the Medical College of Wisconsin's Inception Health | Froedtert & the Medical College of Wisconsin Health Network | 42 | Menomonee Falls, Wis. |
| 4 | Sheikh Zayed Institute for Pediatric Surgical Innovation | Children's National Health System | 30 | Washington, D.C. |
| 5 | Boston Children's Hospital's Innovation & Digital Health Accelerator | Boston Children's Hospital | 24 | Boston |
| 6 | Center for Technology Innovation & Commercialization | Wake Forest Baptist Medical Center | 20 | Winston-Salem, N.C. |
| 7 | UPMC Enterprises | UPMC | 15 | Pittsburgh |
| 8 | Brigham and Women's Brigham Innovation Hub | Brigham and Women's Hospital | 13 | Boston |
| 9 | Ochsner Health System's innovationOchsner | Ochsner Health System | 12 | New Orleans |
| 10 | El Camino Hospital's Fogarty Institute of Innovations | El Camino Hospital | 11 | Mountain View, Calif. |