Successfully delivering on the promise of biomedical innovation, in the world of value-based healthcare, means advancing from “trial-and-error” to “precision” medicine, where patients are confident that they are receiving the right treatments at the right time for their situation.

Getting there requires that we transform our current approach to evidence generation.

The LEAPS Project is advancing the mission of the MIT NEWDIGS consortium - to deliver more value from biomedical innovation faster to patients, in ways that work for all stakeholders - through a new collaborative systems approach to the planning, generation, and use of evidence across R&D and healthcare delivery. A model system for Rheumatoid Arthritis (RA) will be piloted in Massachusetts (2020 launch), and will inform related efforts in other diseases and geographies. Success in LEAPS targets better patient outcomes while also reducing waste and inefficiency across the system.

KEY FEATURES OF LEAPS

System Innovation: Demonstrate a powerful new approach to reducing critical uncertainties in drug development, access, and use that undermine patient outcomes, and fuel unsustainable inefficiencies.

One Disease at a Time: Design and pilot a model system (processes, policies, technologies, and infrastructures) for one target disease (RA) within a geographically defined testbed (Massachusetts).

Proven Approach: Structure system redesign activities with real world cases, multi-stakeholder Design Labs, interactive game theory exercises, and rigorous team-based modeling/simulation.

Build on What We Have: Harness the transformational power of emergent, but fragmented, innovations, such as:

- Platform strategies/architectures
- Digital health technologies and advanced analytics
- Disruptive collaboration models (e.g., open source, pre-competitive governance, patient-centered and multi-stakeholder-driven processes)

Broadly Applicable Insights: Synthesize and dissemi nate generalizable insights and tools from the pilot to accelerate innovation in other geographies and diseases.

LEAPS “Learning Ecosystem” improves patient outcomes with better evidence for decision-making for all stakeholders. Success targets meaningful improvements across R&D, optimization of treatment regimens, and the overall disease burden at the population level.
LEAPS Roadmap to RA MA Pilot

**Pilot Design (2018-2019)**

- **MILESTONES**
  - Design Lab 1
    - Jul 17-18, 2018
  - Design Lab 2
    - Dec 12-13, 2018
  - Design Lab 3
    - Jun 18-19, 2019
  - Design Lab 4
    - Dec 11-12, 2019

**OUTCOMES**

- Foundation Setting, Ideation, 
  & Disease Selection
- Elicitation & Targeting
- Pressure Testing
- Pilot Implementation 
  Planning
- Continuous monitoring 
  & improvement

The LEAPS RA MA pilot will launch in 2020. Activities in 2018-2019 are focused on pilot design and implementation planning, carried out through multi-stakeholder team efforts and a series of invitational Design Labs.

**LEAPS Strategic Advisory Network:**

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**REFERENCES**

4. I-SPY: https://www.ispytrials.org/

**Join LEAPS!**

Success in the LEAPS Project requires hands-on participation by diverse partners. To learn more about how to participate, please contact us.

More information on NEWDIGS projects can be found at: https://newdigs.mit.edu

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