# Business Thinking & Organizational Structure

Data Sciences Institute Topics in Deep Learning

# Healthcare Initiatives

#### **Healthcare Initiatives**

- When brainstorming healthcare initiatives, it is important to take into account key stakeholders:
  - Patients
  - Clinicians
  - Healthcare providers
- All have pivotal roles in both the industry's overall success and the well-being of patients.

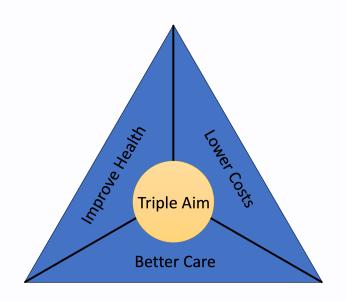
# Triple Aim Framework

#### **Triple Aim Framework**

- Developed by Dr. Donald Berwick and colleagues at the Institute for Healthcare Improvement (IHI) in 2007.
- Set of three interconnected goals aimed at improving healthcare systems and overall health/well-being of populations.

#### **Triple Aim Framework**

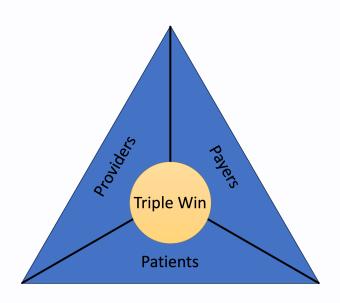
- 1. **Improving Population Health**: Enhance the health of a defined population.
- 2. Enhancing Patient Experience of Care: Improve the experience of care for individual patients.
- 3. Reduce Per Capita Cost of Healthcare: Reduce the overall cost of healthcare while maintaining or improving quality.



# Triple Win Framework

#### **Triple Win Framework**

- When thinking about new ideas, try expanding "Triple Aim" to "Triple Win".
- You need to consider how your idea creates value for all three stakeholders: patients, clinicians, and funders.



#### **Patient**

Improve Outcomes, Improve Experience, Increase Access

- 1. What specific need or problem has not been addressed yet?
- 2. How many patients can benefit from this idea?
- 3. Does this idea lead to a change in their lives? Is it large- or small-scale improvements in outcomes or experiences?
- 4. What are the alternatives that exist now or could exist in the future to address this need or problem?

#### Clinician

Extend Expertise, Reduce Burnout, Advance Careers

- Which team members will be affected by this idea?
- How will their daily tasks and responsibilities be altered?
- Will the idea contribute to improved efficiency and the overall well-being of team members?
- What potential opportunities does it bring, such as the possibility of publications, educational benefits, or enhanced connections with colleagues?

#### **Funder**

Growth, Financial Stability, Expand Reputation, Talent Retention

- How does this idea generate financial value, such as through direct reimbursement, contractual fees, or licensing revenue?
- Who pays for this, is it the patient, insurance providers, hospitals, pharmaceutical companies, or government entities?
- What is the effect of this idea on the brand or reputation of the entity involved?
- Will this idea lead to the creation of new career opportunities?

### **Business Pitch**

#### **Introduction to Business Pitches**

- **Definition**: A business pitch is a brief presentation by an entrepreneur to potential investors, partners, or customers, showcasing their business idea and strategy.
- Purpose: Designed to secure funding, partnerships, or sales.
- Importance: A compelling pitch can make the difference between securing support or missing out on valuable opportunities.

# Create an Outline of Your Pitch Deck

#### Why do you need an outline?

- Clarity & Narrative: An outline helps you create a clear and compelling narrative about:
  - The market
  - Unmet needs
  - Your strategy to meet them
- Anticipate Questions: Planning ahead allows you to foresee and address potential queries from investors and stakeholders.

#### What do you include in your outline?

- 1. Executive Summary & Company Overview
- 2. The Team & Management
- 3. Problem/Opportunity Identification
- 4. Solution & Technology
- 5. Market Opportunity & Size
- 6. Business Model & Go-to-Market Strategy
- 7. Competitive Landscape Analysis
- 8. Intellectual Property (IP) Strategy
- 9. Funding Requirements & Use of Proceeds ("The Ask")

# Create Your Pitch Deck

#### **Executive Summary & Company Overview**

- Provide a succinct overview that encapsulates the mission, technology origin, development stage, and funding objectives.
- Hook investors with the company's purpose, trajectory, and the unique problem it solves.
- Highlight the current development phase (e.g., preclinical, Phase 1 trials) and the investment ask.

#### **The Team & Management**

- Showcase the team's expertise, previous successes, and the strategic formation of advisory boards.
- Discuss the completeness of the team, recruitment plans for missing expertise, and key partnerships.
- Position the team's capability as a cornerstone for the project's success.

#### **Problem/Opportunity Identification**

- Clearly articulate the problem being addressed, emphasizing the pain points and the stakeholders affected.
- Detail the problem's scale, current solutions' limitations, and the opportunity for improvement.

#### **Solution & Technology**

- Describe the product's value proposition and its significance in addressing the identified need.
- Present data or evidence supporting the technology's efficacy, mechanism of action, without disclosing proprietary information.
- Ensure the explanation is investor-friendly, focusing on crucial details rather than overwhelming with technical data.

#### **Market Opportunity & Size**

- Illustrate the commercial potential, focusing on a well-defined market segment.
- Provide market size estimates, target and secondary market descriptions, and the rationale behind market choice.
- Emphasize why the timing is right for the product and how the company plans to capture market share.

#### **Business Model & Go-to-Market Strategy**

- Outline the income strategy and how the startup intends to deliver returns to investors.
- Discuss the development plan, regulatory milestones, and necessary partnerships for market entry.
- Utilize frameworks like the business model canvas to articulate a coherent strategy.

#### **Competitive Landscape Analysis**

- Identify competitors and substitutes, highlighting your product's differentiators and advantages.
- Discuss market readiness for a new solution and why current gaps have not been addressed effectively.

#### **Intellectual Property (IP) Strategy**

- Share details on patent filings, trade secrets, and the company's overall IP strategy.
- Include patentability and freedom to operate analyses, ensuring enough detail for evaluation without revealing confidential information.

#### Funding Requirements & Use of Proceeds ("The Ask")

- Clearly state the funding needed, outlining past funding usage and future financial planning to achieve milestones.
- Discuss potential exit strategies, giving investors a clear understanding of the return on investment.

## Tips For Your Pitch Deck

#### **Understanding Your Audience**

- Research: Know your audience's background, interests, and investment focus.
- Tailoring Your Message: Customize your pitch to resonate with your audience's specific interests and concerns.

#### **Crafting Your Message**

- Clarity and Conciseness: Be clear and direct.
- Storytelling: Incorporate storytelling to connect emotionally and make your pitch memorable.
- **Visuals**: Use visuals (graphs, images, and infographics) to support your message .
- Tips: Keep slides clean and focused, and use bullet points.

#### **Delivering Your Pitch**

- Confidence: Practice your pitch to deliver it confidently.
- Preparation: Anticipate questions and rehearse answers.
- Handling Questions: Listen carefully, and answer questions directly and positively.

#### **Common Pitfalls to Avoid**

- Overcomplication: Keep it simple.
- Lack of Focus: Stay on topic and ensure each slide contributes to your overall message.
- Ignoring Feedback: Be open to feedback and use it to refine and improve your pitch.

## Case Studies



https://flatiron.com

#### Flatiron health

- Healthcare technology company specializing in cancer research and patient care.
- Data Curation and Analysis: Analyzes data, including EHRs, for real-world cancer care insights.
- Software Solutions for Clinics: Offers cloud-based oncology software to improve clinic operations and patient care.
- Research Collaboration: Collaborate with the life sciences sector for cancer research to accelerate therapy development.
- Insights for Oncology Care: Provides healthcare insights to enhance care quality, inform policy, and guide strategic planning.

# ITEMPUS.com

#### **Tempus Labs**

- Tech company focused on precision medicine, using artificial intelligence to analyze clinical and molecular data.
- Genomic Sequencing: Perform genomic sequencing for targeted disease treatments.
- **Data Analytics**: Analyze clinical and molecular data for treatment insights.
- Clinical Data Structuring: Structure unstructured medical data.
- Collaboration with Healthcare Research: Collaborate with healthcare and research entities to advance personalized medicine

# 23andMe

https://www.23andme.com/en-ca/

#### 23andMe

- Consumer genetics company providing direct-to-consumer DNA testing.
- Ancestry Reports: Provide insights into a person's ethnic background and ancestral origins.
- Health Risk Assessments: Highlight genetic predispositions to diseases.
- Trait Reports: Explore genetics' influence on physical and personal characteristics.
- Carrier Status Reports: Identify genes for inheritable conditions.
- Experiencing challenges from blending consumer tech, biotech, and healthcare within one company.
- Considering separating the company's consumer and therapeutics divisions to address declining stock prices and the risk of Nasdaq delisting



https://www.recursion.com

#### **Recursion Pharmaceuticals**

- Biotech company using AI and automation for drug discovery.
- **Drug Discovery**: Use AI to rapidly identify potential drugs for a wide range of diseases.
- **High-throughput Screening**: Employ automation and robotics to perform experiments at a large scale.
- Data-driven Insights: Data-driven insights from biological data and machine learning to speed up pharmaceutical research.