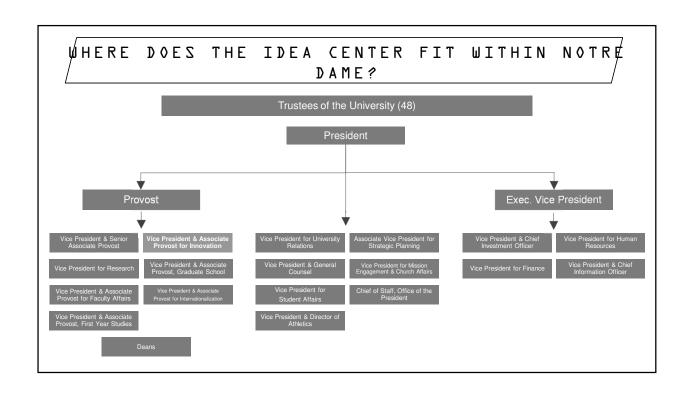


WHAT IS THE IDEA CENTER?

Standing for Innovation,
De-Risking and Enterprise
Acceleration, the IDEA
Center is the fundamental
resource for all
commercialization and
entrepreneurial activities
at the University of Notre
Dame.





IDEA CENTER CONCEPTION

- **1. Trustees:** Why is U Notre Dame lagging behind peers with respect to Commercialization and Entrepreneurship?
- **2. ND Research & Commercialization Advisory Committee**: fall 2013
- 3. Report Finalized: fall 2016

It is a strategic imperative for Notre Dame to become a best in class player in the translation of innovation and research into solutions that reach the market and benefit mankind. Success in this arena is critical to fully realizing the University's stated desire to be a leading research university and a "force for good in the world".

WHAT IS THE IDEA CENTER?

What we are NOT:

Tech Transfer office
Accelerator
Incubator
Venture Fund

WHAT IS THE IDEA CENTER?

We are:

Venture Builders/Startup Studio

Shared resources to commercialization technologies.

Resources include:

- 1. \$\$\$
- 2. Mentors
- 3. Access to network
- 4. HR
- 5. Accounting
- 6. Management Talent
- 7. Legal
- 8. Facilities
- 9. Small \$ to:
 - A. Build prototypes
 - B. Generate interest

WHOM DO WE SERVE?

Our Customers:

Faculty/Staff of UND
Students of UND
Community
Alumni

THE 4 PISTONS OF THE IDEA CENTER

Commercialization Engine

Innovation Park Student Entrepreneurship

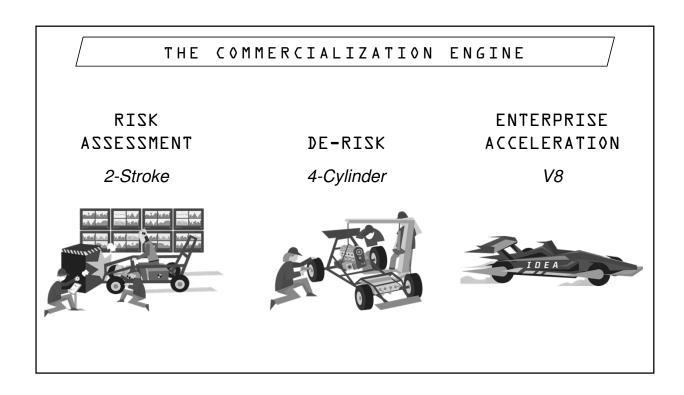
Network Engagement KEYS COMPONENTS

Process Network Funding Organizational Structure Recruit Board 1st Students

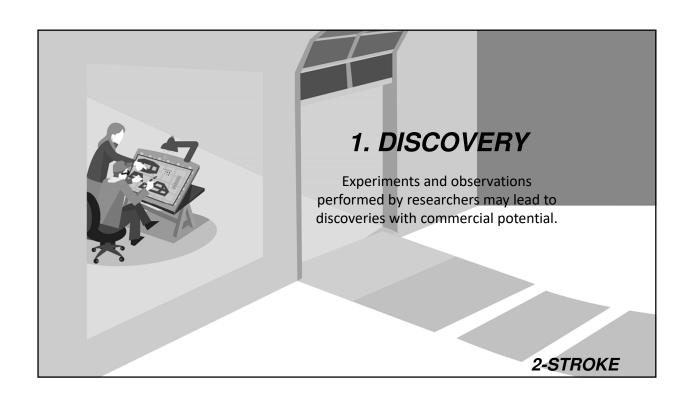
KEY COMPONENTS

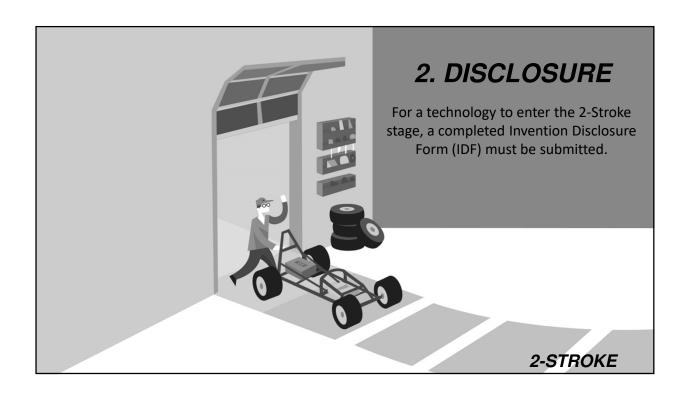
Process Network Funding

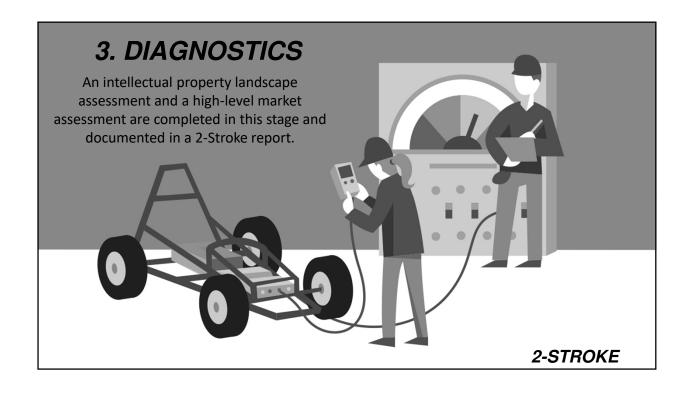






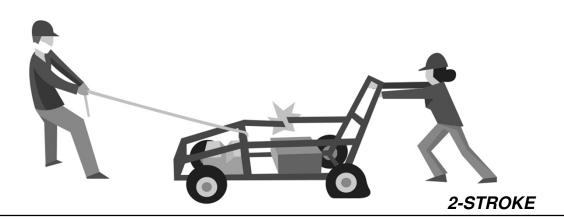


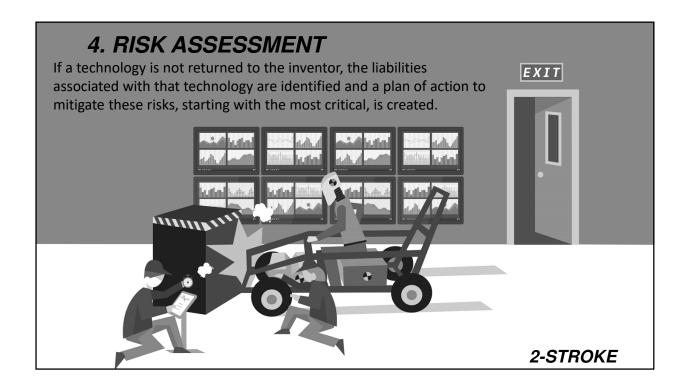




ADVANCING OR RETURNING

Based on the robust information collected in the 2-Stroke report, the IDEA Center will make the decision on whether to: advance the technology to the next step in the 2-Stroke stage, request modifications, or release it to the inventor.

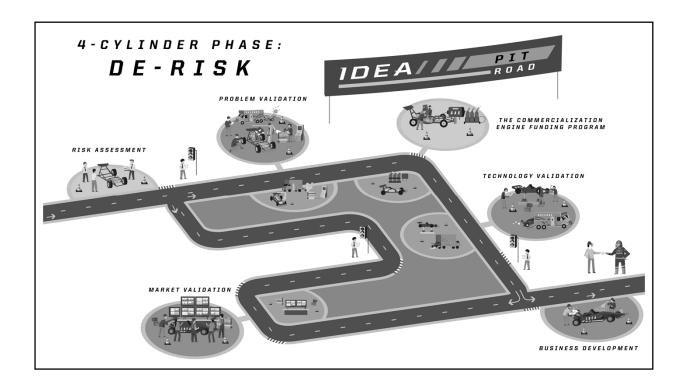






DE-RISK 4-CYLINDER

Identify rate limiting risk and eliminate (or eliminate tech)



PROBLEM VALIDATION

Validate the Problem

Not selling solution
Interview 40-100 customers
4-7 week process
Wording of questions – critical
Look for market signals
Rely on network for contacts

Solves #1 reason why companies fail

Output: Validated problem with features of interest to customer



4-CYLINDER

TECHNOLOGY VALIDATION

Build the Solution to the validated problem:

Step 1 – Product Vision
Step 2 - Product
Development Roadmap
Step 3 – Identify funding
sources for next two steps
Step 4 – Accomplish next
development milestone
Step 5 – Go to Step 2 (adjust
product vision as needed)



4-CYLINDER



Establish Market Traction:

Advertise product mockup Crowdfunding campaigns Customer interviews

Product-Market Fit



4-CYLINDER

FINANCIAL STRATEGY

Pit Road Fund

\$22.65M raised ROI Fund \$\$ flow two ways: Out of Round (SAFE) In Round

De-Risking Fund

\$250K/year ONLY Faculty/staff ONLY unlicensed Considered Expense



Student Pitch Event

\$50K/year ONLY Students Grant

OTHER

Elevate Ventures SBIR/STTR Academic Grant

4-CYLINDER



ENTERPRISE ACCELERATION

V8

All De-Risking Plays available to Startups/Licensee's
Governance
Management
Funding
Strategy
Need more plays...

WHOM DO WE SERVE?

Our Customers:

Faculty/Staff of UND
Students of UND
Community
Alumni

STARTUPS BASED ON FACULTY/STAFF IP

University owns IP IDEA Center runs/pays for Engine Process IDEA Center pays patent costs Financial Terms:

- license equity & royalty (equity only deals)
- reimbursement of patent \$
- equity w/Pit Road Fund \$\$'s (up to 10% of nxt round)

STARTUPS BASED ON STUDENT IP

Student owns IP Student runs Engine Process (with help) Student pays patent costs (with help) Financial Terms:

equity w/ Pit Road Fund \$\$'s (up to 10% of nxt round)

STARTUPS BASED ON COMMUNITY IP

Community/Alumni owns IP Community partners run 2 stroke IDEA Center runs 4 cylinder at cost Financial Terms:

- equity w/ Pit Road Fund \$\$'s
- up to 10% of the next round

KEY COMPONENTS

Organizational Structure

ORGANIZATIONAL STRUCTURE

Traditional:

- Technology Managers
- Cradle to grave tech management

Specialized:

- Structure mirrors process
- Specialization = increased efficiency*

KEY COMPONENTS

Recruit Board 1st

A DIFFERENT APPROACH

Pit Road Companies

Wholly owned by but separate from U Notre Dame
License (std terms) – 5% equity
Recruit Board from Alumni (experienced)
Board of Directors – weekly mtgs
Management – FT employee of IDEA Center
Board recruits long term management at Seed
All \$\$ invested in company – SAFE Note
Company pays rent for office/lab
Open cap table

A DIFFERENT APPROACH

WHY OPEN CAP TABLE

Every investor is different Every company is different Reduce friction

Reduce reasons to walk:

Too many shareholders
Shareholders not affiliated with company (not investors)
Founders have too much or too little equity
No shares available for employee pool

IDEA CENTER FUNDING

- 1. Phase 1:
 - Provost and ND Research (\$\$\$\$)
 - Innovation Park (\$)
 - ESTEEM MS Program (\$)
 - Commercialization Revenue (\$)
- 2. Phase 2:*
 - Pit Road Fund management fee (\$\$)
 - Partially endowed
- 3. Phase 3:
 - Fully endowed
 - Increased Commercialization Revenue

KEY COMPONENTS

STUDENTS

STUDENT ENTREPRENEURSHIP

Our approach to engaging and supporting students at the IDEA Center

ENGAGEMENT

How can students engage with us at the IDEA Center?

- INVENT
- COMPETE
- LEARN
- INTERN
- EVENTS
- TINKER



INVENT

How can we help our student entrepreneurs?

- PROCESS
- SUBMISSION
- COACHING
- FUNDING
- NETWORKING& FEEDBACK



KEYS TO SUCCESS WITH STUDENTS

What makes the difference?

- IDEA CENTER –
 available to all students
- COMPETITIONS
- OUTREACH

COMPETITIONS

Contests draw students into our process

McCloskey New Venture Competition

- √ \$409,000 in cash & prizes
- ✓ Mentoring
- ✓ Tremendous feedback
- Open to students, alumni and community ventures
- ✓ Student participation required on all teams = excellent learning opportunity

Student Pitch Competitions

- ✓ Student inventors pitch for up to \$2,500/month to support venture developmental needs
- ✓ Great feedback
- ✓ Alumni involvement
- Industry expertise, networking are key

Idea Challenge: Student Kickoff

- √ 60 seconds to pitch idea
- ✓ Students vote to determine winners
- ✓ Kickoff for McCloskey Competition

OUTREACH

How best to get word out to students?

- ORIENTATIONS & ACTIVITIES FAIRS
- ENTREPRENEURSHIP CLUB MEETINGS
- CLASSROOM VISITS
- INNOVATION FELLOWS
- ENTREPRENEURSHIP CLUB LEADERS CONSORTIUM

