Design Your School’s New Innovation Space

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welcome!

A bit about Britta & Bud
Give Up, Catch Up, or Keep Up with Innovation? An Educator’s Dilemma

...more presentations and articles at IMSA Digital Commons
What the heck is an innovation center and why are we doing it now?
Q: Who came today with a specific space to design?
optional tours...who is interested?

- IN1
- future IN2 space
- robotics lab
- Grainger workshop
where did we start?

1. PB&J Innovation Brown Bag lunch
2. IN2 Advisory Committee
3. Fieldtrips
4. Design Charrette
5. Intersessions (3)
6. Maker Squad
7. IN2 student advisory committee
develop a timeline

- 2014: design
- 2015: naming/branding
- 2016: fund raising (private)  (public 2016 and beyond)
- 2017+: Construction

awareness

Open/evolves
what came next?

8. Naming/Branding
9. Select architects
10. Design process
11. Naming/Branding
12. Programming
13. Fundraising
14. Job Descriptions and hiring
15. Roll out and prepare to open
seek inspiration

1871
Silicon Valley (Facebook, Twitter, Dropbox...)
State Farm Next Door (industry)
Chicago Public Library (Maker Space)
IIT Idea Lab
CIE – Chicago Innovation Exchange
MIT Media Lab (Boston)
Harvard Innovation Lab (Boston)
Northwestern Garage
Greentown Labs (Boston)
Artists’ Asylum (Boston)
Purdue (Foundry & Anvil)
Chicago - DMDII
University of Illinois Research Park
Rockford & Peoria Innovation spaces
Silicon Valley

January, 2014
Avos
Exploratorium
Facebook
Harvard Innovation Lab...

October 1, 2014
more in Boston...

Oblong Industry  Greentown Labs  Artists’ Asylum
Chicago

IIT Idea Lab

Northwestern

DMDII
Chicago Public Library
Local

Business Incubator
Barrington High School

“"I want to teach older adults how to use technology”"

Aurora Public Library
Maker Space
Rockford, IL

NIU/EIGERlab

Woodard Aerospace
Peoria, IL

Caterpillar Visitor’s Center
Urbana, IL

Bluewaters Petascale Computing

University of Illinois EnterpriseWorks
pick up ideas...

3-D printer on wheels

rapid prototyping cart
gain input

Design Charrette
August 24, 2014 (58 participants)
“IN2” is a highly conceptual name that plays upon the idea of both innovation and inquiry—bridging businesses and the educational focus at IMSA. It also extends the current name assets at IMSA, metaphorically extending the mission.

It plays on the concept of bringing both innovation & inquiry into practice at IMSA and on the concept of what is put “into” the center to make things happen—ideas, intuition, exploration, knowledge, experimentation, etc.

It is short, memorable and easy to say. It leaves room for curiosity and play without having to explain too much.

The three lines composing the “2” represents the different journeys of students through time and the paths that come together at IMSA through innovative practices, inquisitive learning, and problem-solving processes.
3D walkthrough
IN1, prototype for IN2

1.0 A (former) computer lab was repurposed into the IMSA Energy Center – fall 2014

2.0 Launch of IN2 Innovation Hub planning heightened interest in Maker Movement. Maker Squad was formed Jan. 2015. Open maker hours have increased use and interest of the space for class, personal and club use

3.0 The TALENT entrepreneurship program moved IN2 this space spring of 2015; now we call it IN1, the prototype of IN2
short break

Restrooms are straight back, then to the right

See you back here in a few…
What is an innovation space?
Why do we want to make things?
get students excited about environmental sustainability?

reimagine learning spaces to be more collaborative?

redesign the school day to better meet the needs of today’s families?

connect our school more with the neighborhood community?

Design Thinking is a mindset. It’s human-centered, collaborative, optimistic and experimental.
How might we create rituals and routines that establish a culture of innovation in our classrooms and schools?
work time

Key questions…

Who is your target audience?
What do you want to make?
What are your design constraints?
reflection

next steps

wrap up
online resources

- All Things Tech  http://www.engadget.com/
- 3D Printing Industry Resource  http://3dprintingindustry.com/
- NASA Summer of Innovation Site  http://www.nasa.gov/offices/education/programs/national/summer/education_resources/#.Vqu7GbIrJaQ
- Open Education Consortium  http://www.oecd.org/2015/12/new-oecd-publication-open-educational-resources-a-catalyst-for-innovation/
- Innovation in Community College  http://www.league.org/
- National Consortium for Entrepreneurship Education  http://www.entre-ed.org/
- Autodesk  http://www.autodesk.com/
- Solidworks  http://www.solidworks.com/
- Rhino 3D  http://www.rhino3d.com/
- Blender  http://www.blender.org/
- Tinkercad  https://www.tinkercad.com/
- FreeCad  http://www.freecadweb.org/
- Sketchup  http://www.sketchup.com/
- Slic3r  http://slic3r.org/
lessons from Sylvia...

1. Baby Steps
2. Cheap is Good
3. Failure happens
4. Be the student
5. Don’t sweat the small stuff
Join IN2 on social media...

IN2IMSA

IN2 (Group page)

IN2 (group)

imsa.edu/in2
thank you!

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