







# Innovative Teaching and Learning Experiences through Research and Creative practices

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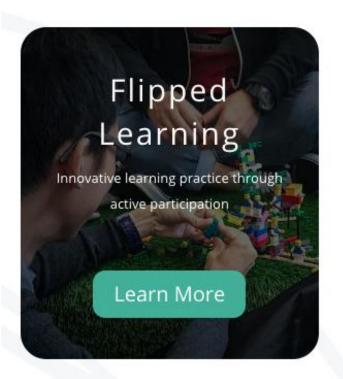
Associate @ Post-Digital Cultures Research centre



@sarnab75 #gamification #GChangers



About ~



DISRUPTIVE LAB

Coventry Williams



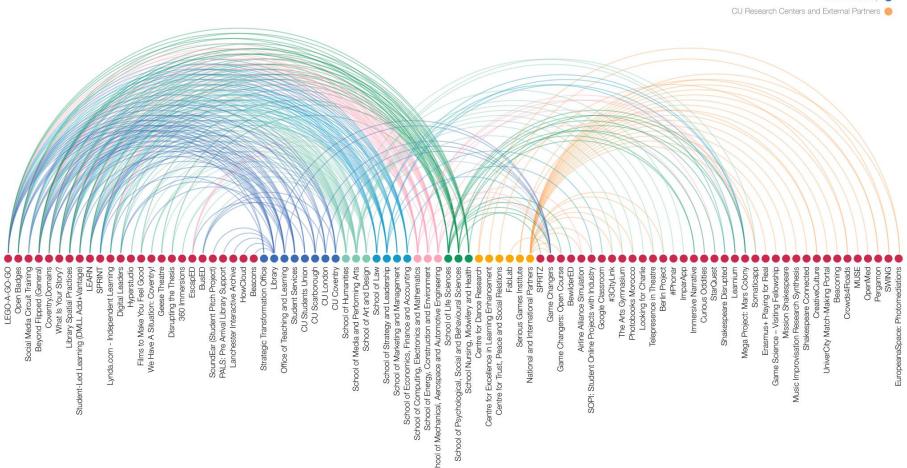




## Across all schools and beyond...



- Faculty of Arts and Humanities
- Faculty of Business and Law
- Faculty of Engineering, Environment and Computing
  - Faculty of Health and Life Sciences
    - Wider CU Group



# The lab has engaged with

3,179

Students

31

Courses

1,101

Staff

# 25 Student Activators

Employed by the lab

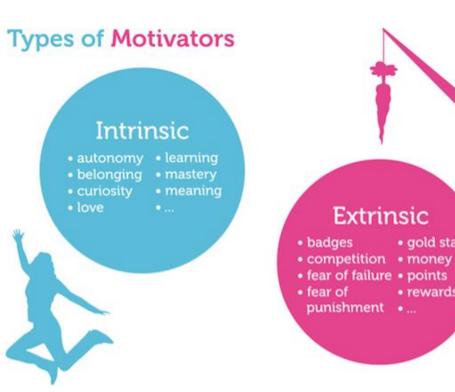
"By working for DMLL I am still able to learn whilst working very professionally in a creative environment. I am always free to have my opinion as a Graphic Designer and am always included. DMLL has really helped me find my place in the design industry which I am very thankful for."

Emilia Byrne

DMLL Student Activator (2nd Year Graphic Design student),

# **Motivation**

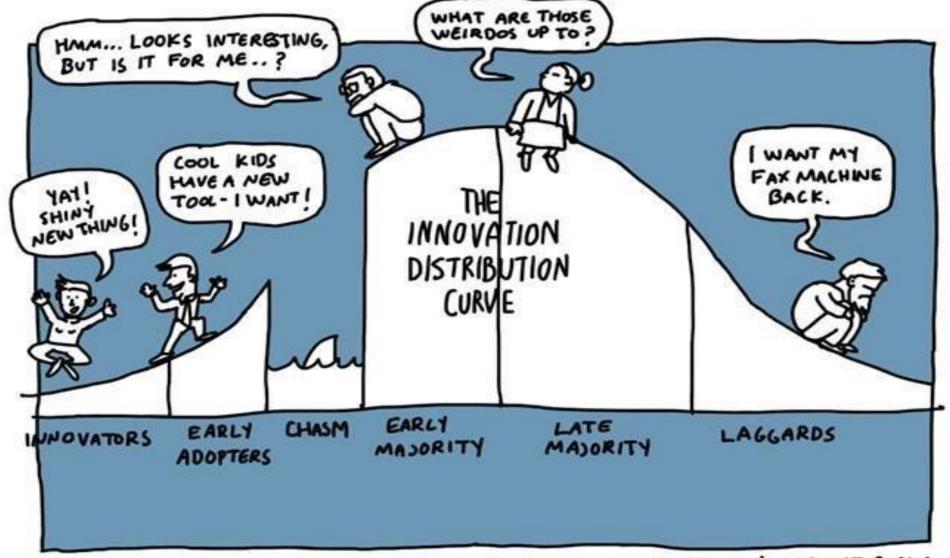




• gold stars

rewards

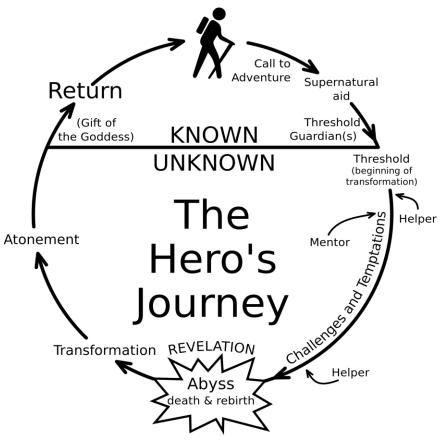
"Sorry, pal, right metaphor, wrong motivation."

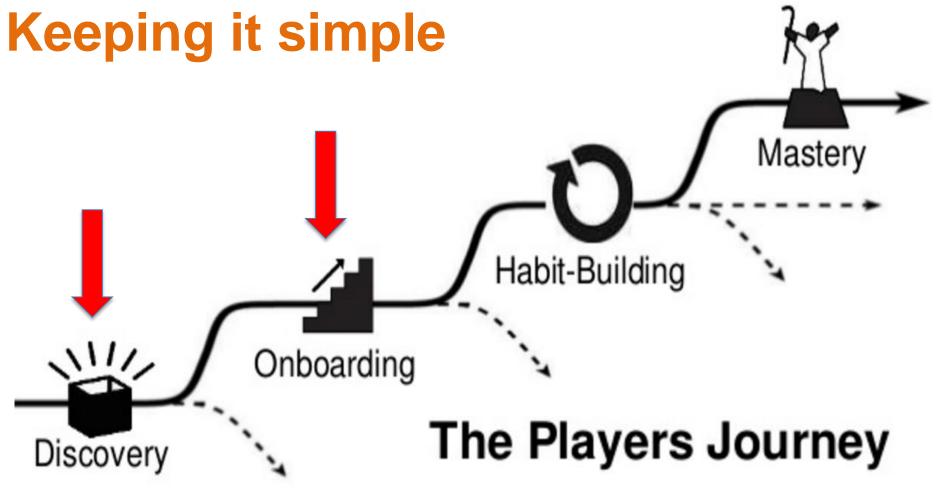


BUSINESSILLUSTRATOR.COM

## Designing an empowering experience?







(Amy Jo Kim, MFW15)

# **Co-Creativity**

# Changers Creative Culture

Beyond Flipped SPRINTs facilitated...

4 Course

Designs

New Add+vantage modules

School-wide CPD module

"SPRINT was a real eye opener. It's a great method for challenging dogmatic and tried and trusted thinking in a safe space, to produce ideas and strategies outside the box in quick time. I can certainly see multiple applications in improving the student experience."

Associate Head of School, Economics, Finance and Accounting (Faculty of Business and Law)

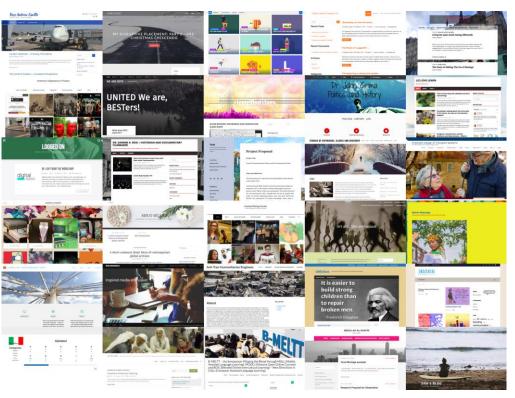




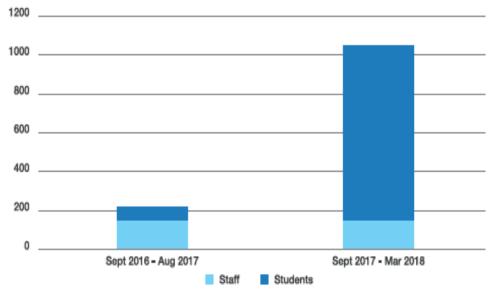
# **Creative Learning spaces...**



## **Creativity and open web**







## **Hybrid "spaces": Merging Physical and Digital?**



## Top 10 skills

#### in 2020

- Complex Problem Solving
- 2. Critical Thinking
- 3. Creativity
- 4. People Management
- 5. Coordinating with Others
- 6. Emotional Intelligence
- 7. Judgment and Decision Making
- 8. Service Orientation
- 9. Negotiation
- 10. Cognitive Flexibility

#### in 2015

- 1. Complex Problem Solving
- 2. Coordinating with Others
- 3. People Management
- 4. Critical Thinking
- 5. Negotiation
- 6. Quality Control
- 7. Service Orientation
- 8. Judgment and Decision Making
- 9. Active Listening
- 10. Creativity





We have developed and produced

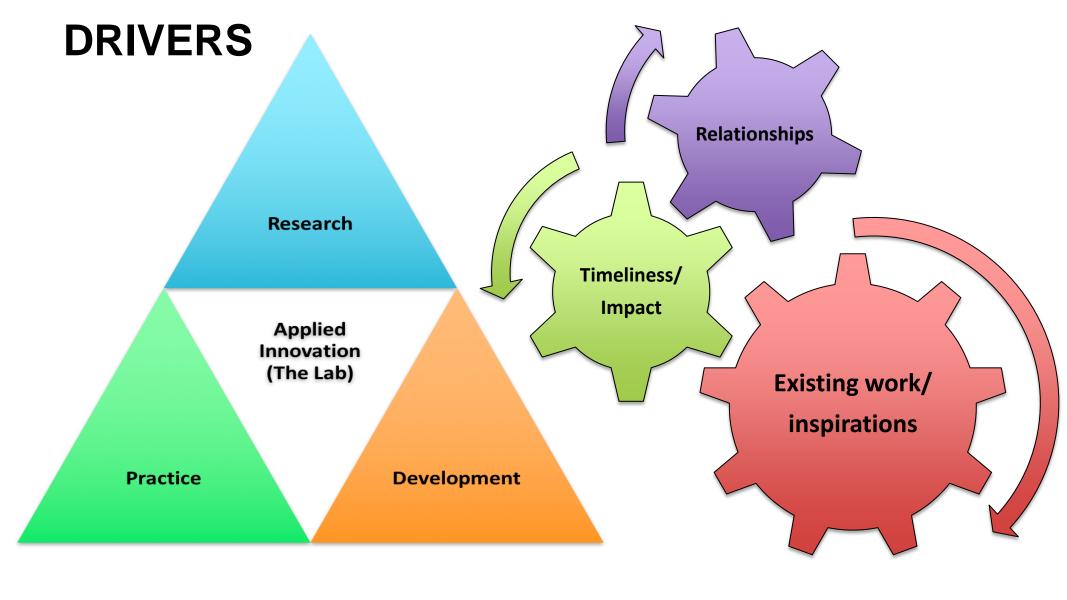
# 35 Toolkits & Online Resources

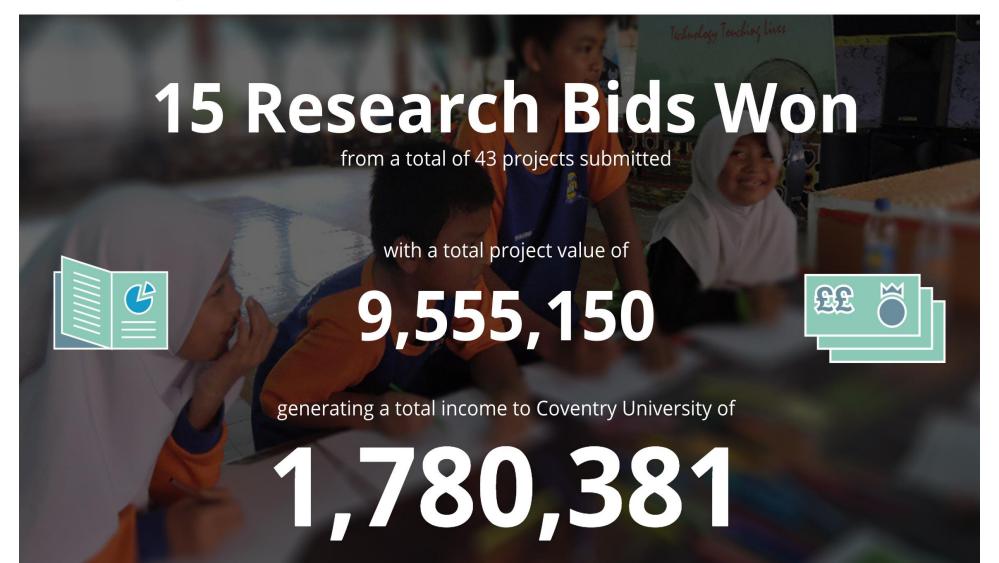
2 Apps · 1 Course outline · 9 Guides · 20 Open Education Resources · 2 Flipped Toolboxes · 1 Worksheet

164

Videos created

1,009
Hours viewed





## Design Experience inspired by PLAY and GAMES





Michael Morgenstern for The Chronicle

http://chronicle.com/article/The-Looming-Gamification-of/233992

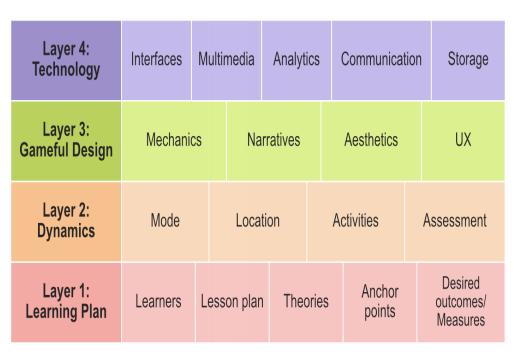
# Changers

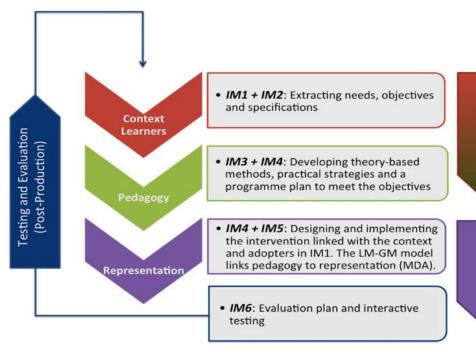
Co-creativity through Playful and Gameful Practices

gamify.org.uk

#Gchangers #PlayRemix

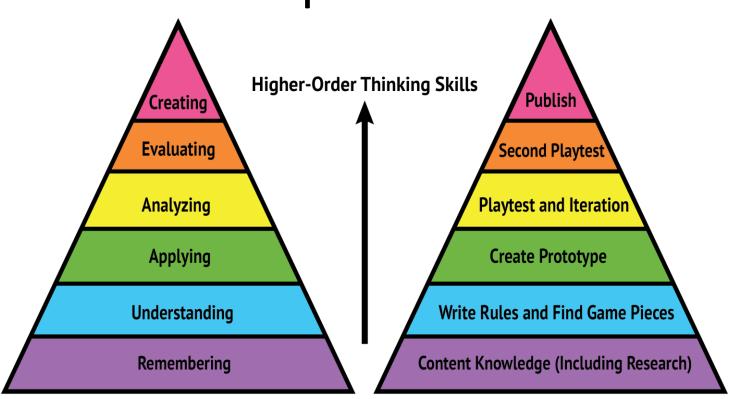
# Holistic and Trans-disciplinary





Arnab, S. and Clarke, S. (2017), *Towards a trans-disciplinary methodology for a game-based intervention development process.* British Journal of Educational Technology, 48: 279–312. doi:10.1111/bjet.12377

# Learning through a Game Creation process



**Bloom's Taxonomy and Game Design** 

Bev Vaillancourt, M.Ed. Educator, Instructional Designer http://zulama.com/education-trends/games-blooms-taxonomy/

# Creative Culture



AMES and play have always been a But a team of researchers is pushing it a step further by inculcating games and play into the teaching of science, technology, engineering arts and mathematics. Though the idea may seem too radical to

most traditional educationists, a research team in Saraeak is discovering the potential of using games and play in the teaching of the subjects.
Coverity University Disruptive Media
Learning Lab Professor Dr Sylvester Arnab said
teaching should never be rigid and a one-sided communication in order to gauge students'

When the teaching method gets dry and rigid, students tend to be bored and lose interest. When this happens, the teacher will have to keep peating the message to ensure it gets across,

project, which aims to address educations challenges within the context of inclusive learning for learners from the rural parts of Malaysia

is proven imagine medical dedoct going through their studies without any on-the-jeb training. Or a clustely grounded explorations of curricular charical engineeranho does not experiment in the clustering described and controlled experiments.

Some obligations in Europe and even in Asia lightle imagination. The challenge is to keep up include the use of Logo bricks into their delivery with interesting games in class, "said Sim. but the CreativeCulture project aims to name. Another teacher, Chong Chee Huse, believes traditional games such as congleak hopscotch, hide one has to be creative in reaching out to students.

james crafted to teach several subjects including. With the Sarawak government pushing for a



Research Counci, United Kingdom and Ministry of Higher Education Malaysia under the Newton-Unique Omar programme. Nothing beats hands-on experience and this model for improvement much needed for engineering special transformation.

ab and just learns theoretical information from a desper learning. Mino said. In Kuching, SMK St Tremas English teacher

Thysical experience halps chudents understand to the Nativerse, shifts a creamas surgium seacher the titler. Nave magine if we incorporate games and bitter. Nave magine if we incorporate games and bitters are class.

"Games halp students understand better. They

and seek, and treasure hunt.

In a recent experiment, the research team
held a session at SK Teldk Melano in Lundu,
Sarawak where teachers and pugits took part in teaches mathematics.

athernatics. digital economy, modern games such as Candy "At first no one wanted to try the math station," Crush and Angry Birds can also be used in the because of the natural fear of the subject. But after a while the participants managed to get through the Physics can be taught using the Angry Birds.

Recently the Creative Culture Project held the



Newton Fund





BRITISH COUNCIL

**Relationships** 

Timeliness/

impact

Official

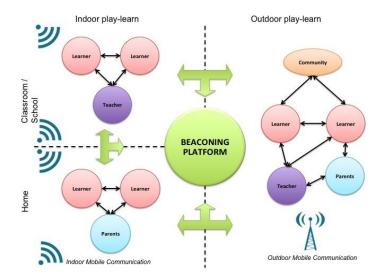
(ODA)

**Development** 

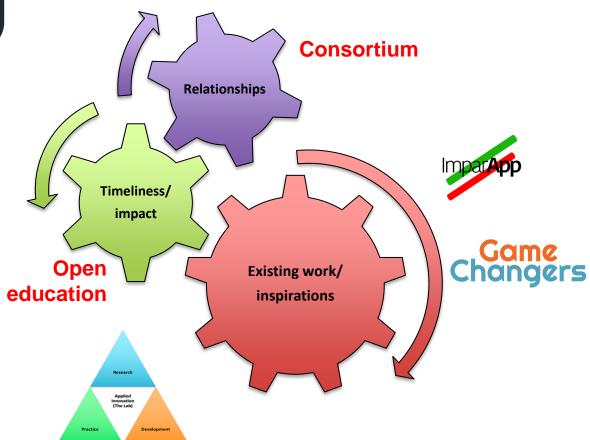
**Assistance** 



# beaking educational barriers with contextualised pervasive and gameful learning







































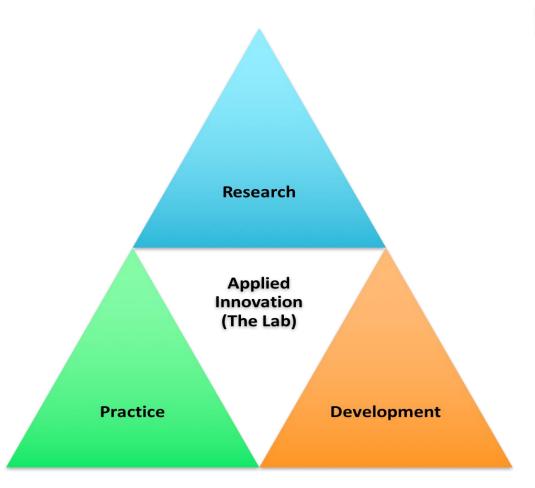
# **Social Value**

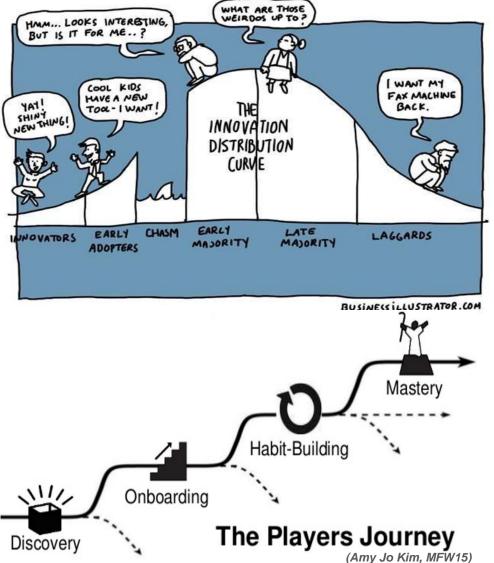




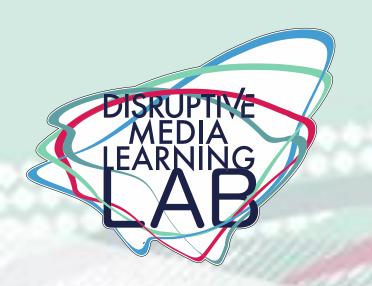


## Conclusion





# Thank You!



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