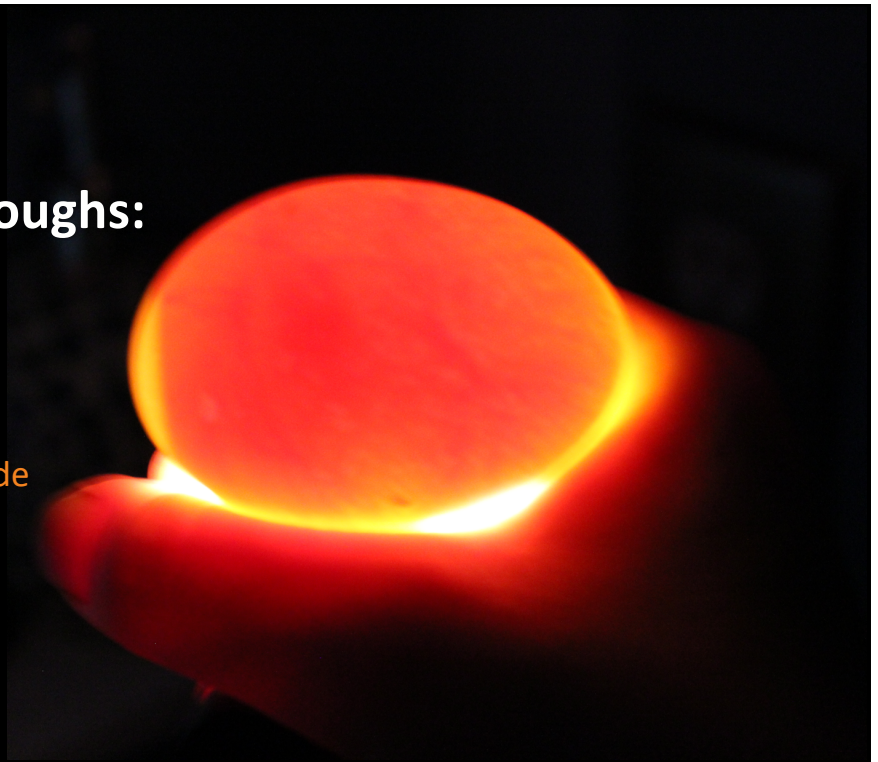


# Building Breakthroughs: THE AUSTRALIAN SPACE INNOVATION IMPERATIVE

6<sup>th</sup> SA Space Forum, Adelaide  
December 2018

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Deloitte.



## SPOTTING THE BIG SHIFTS...

Categories transform in ways that have patterns.  
Leaders actively embrace eras as they emerge.

*Leaders ought to lead: whatever else  
you do, focus on transforming sectors...*



DISRUPTORS ARE MORE PREVALENT TODAY

*Now and then an industry changes fundamentally....*



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ADVENT OF THE MIT MEDIA LAB, 1985

*How Nicky Negroponte saw around corners...*



Fostering revolutionary change: Containerized shipping

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*One fast way to transform an industry is to develop new, open standards and platforms that redefine what's possible and drive vast new growth...*

*Sometimes revolutions  
come in corrugated steel...*



Fostering revolutionary change: Containerized shipping

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*Creating a standard shipping container changed the world. First it made "globalization" feasible—creating millions of jobs, surprising extensions followed.*

Shipping was a manual process requiring multiple transfers from ship to dock to rail to buggy.



1862



1955



2012

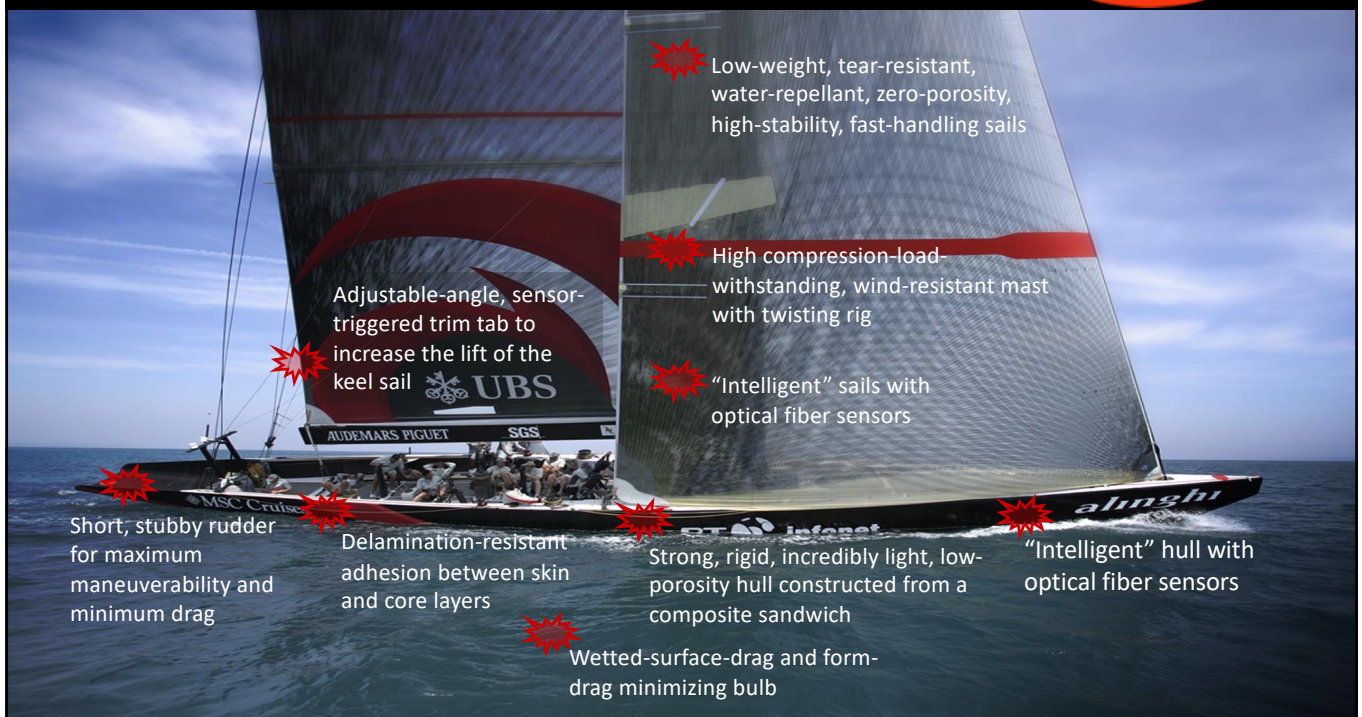




# 31ST AMERICA'S CUP WINNER

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## 21<sup>ST</sup> CENTURY INNOVATION PRINCIPLE

*Modern innovation is more about elegant integration than invention...*



*Asset light  
Fast  
Smart  
Connected  
Distributed  
Decentralized  
Shared  
Porous  
Rated  
Open*

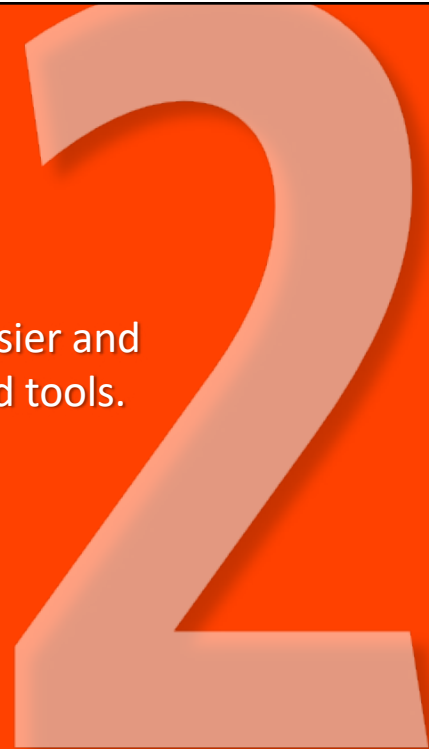
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# INNOVATION TRADECRAFT

Innovation is always tough. It gets vastly easier and more reliable when you do it with advanced tools.

Focus on addressing this  
*within your own firm...*



## A STRONG POINT OF VIEW

*Ten Types of Innovation: a deep look at the discipline of innovation.*

- More than **\$6.8 million of innovation effectiveness R&D** condensed into a concise guidebook
- Reveals both how to **create successful innovations** and to **install a deep innovation competence**
- Helps teams **root out lore and substitute logic**; move **beyond myths to methods**
- Provides **deep tactics** and reveals how to build a **signature innovation playbook**



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TEN TYPES OF INNOVATION

*Successful innovators innovate beyond products and integrate 5+ types...*

TEN TYPES OF  
INNOVATION



**BOLDER CONCEPTS**

Network  
Connections  
with others to  
create value

**EASIER TO IMPLEMENT**

Process  
Signature or superior  
methods for  
doing your work

**HARDER TO COPY**

Channel  
How your offerings  
are delivered to  
customers and users

Customer  
Engagement  
Distinctive  
interactions  
you foster



**CONFIGURATION**

**OFFERING**

**EXPERIENCE**

Profit Model  
The way in which  
you make money

Structure  
Alignment  
of your talent  
and assets

Product  
Performance  
Distinguishing  
features and  
functionality

Service  
Support and  
enhancements  
that surround  
your offerings

Brand  
Representation  
of your offerings  
and business

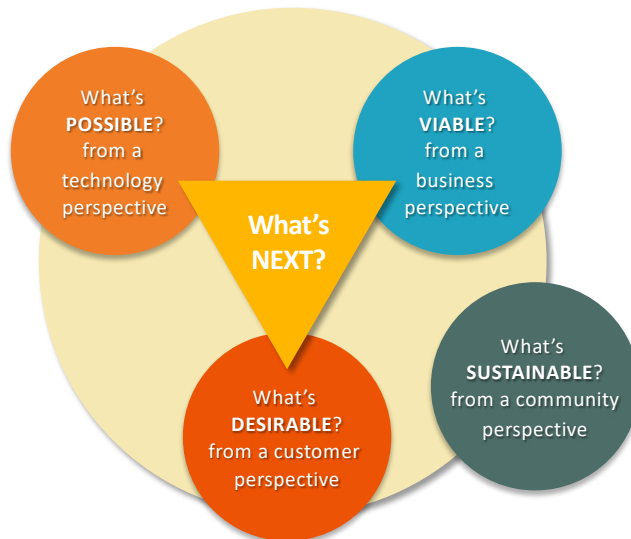
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# BUILDING BREAKTHROUGHS

**Balanced breakthroughs:** a simplified model for framing, designing, and developing sophisticated innovations



## Breakthroughs come from:

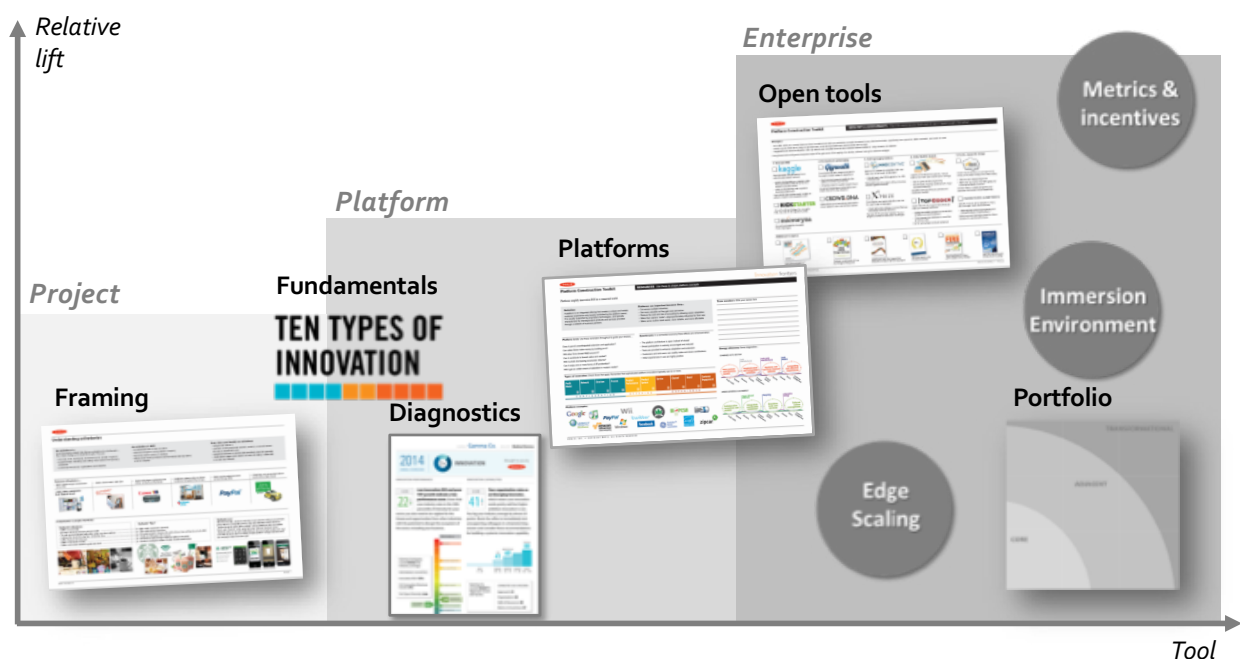
- Five or more TYPES
- All three COLORS used
- Careful outflanking of others in your category

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# UNDERSTANDING THE EFFECTS OF DISCIPLINED INNOVATION

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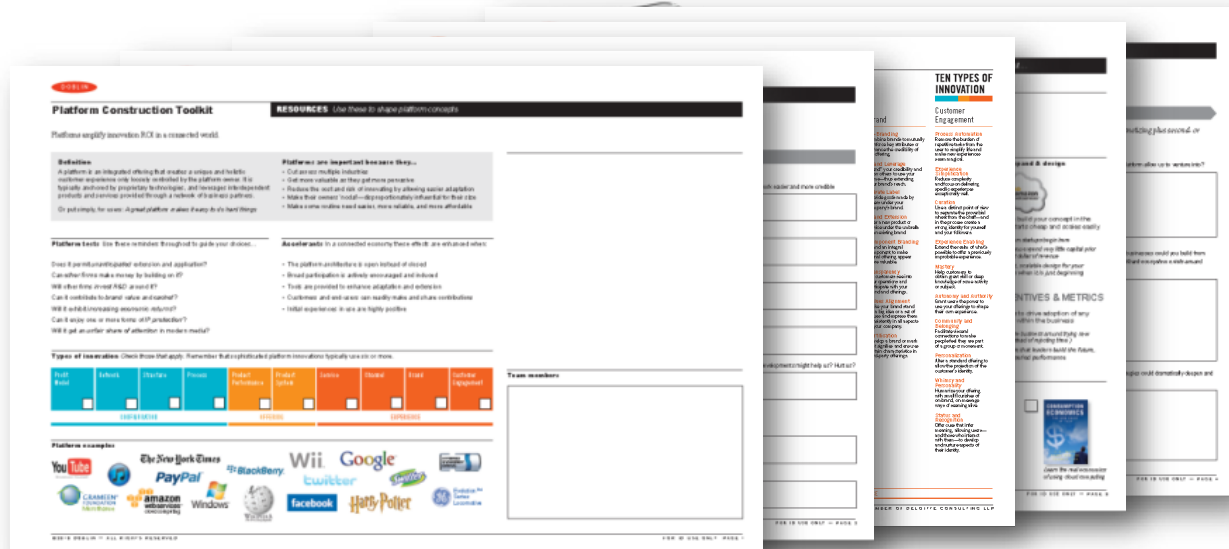


## PLATFORM CONSTRUCTION PROTOCOLS

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### Moving beyond brainstorming...



## DIFFERING DEGREES OF INTERVENTION

### What you achieve is a function of what you are willing to install...

- |               |   |
|---------------|---|
| <b>Best</b>   | <ul style="list-style-type: none"> <li>• <b>Metrics throughout the firm</b></li> <li>• <b>Incentives for leaders to sponsor growth initiatives</b></li> <li>• <b>High potential young people to author growth initiatives</b></li> </ul>                        |
| <b>Better</b> | <ul style="list-style-type: none"> <li>• <b>Deep innovation "themes"</b></li> <li>• <b>Best in class platforms</b></li> <li>• <b>Lightweight innovation: clouds crowds, partners &amp; prizes</b></li> <li>• <b>Clear sense of ecosystems shifts</b></li> </ul> |
| <b>Good</b>   | <ul style="list-style-type: none"> <li>• <b>Signature tradecraft</b></li> <li>• <b>Diagnostics</b></li> <li>• <b>Center of excellence</b></li> <li>• <b>Measurable "innovation intent"</b></li> </ul>   |

Hit rate  
≈ 70%+  
14x

Hit rate  
≈ 50%+  
10x

Hit rate  
< 5%

Hit rate  
≈ 35%+  
7x

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# SHARED THEMES & PLATFORMS

When an entire field needs to change, work with others to achieve carefully articulated goals.

Focus on addressing this *with others in the region collectively...*



PLATFORMS ARE THE NEW MINIMUM VIABLE SOLUTION

## Platforms matter...

*All the important stuff now cuts across companies and markets*



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**A platform...**

**is an *integrated offering* that creates  
a *unique and holistic customer experience* only  
loosely controlled by the *platform owner*;**

**It is typically anchored by *proprietary technologies*,  
and leverages *interdependent products and services*  
provided through an *ecosystem of business partners*.**

**Or put simply, for users:**

***A great platform makes it easy to do hard things***

INNOVATION ASSESSMENT: GOOGLE

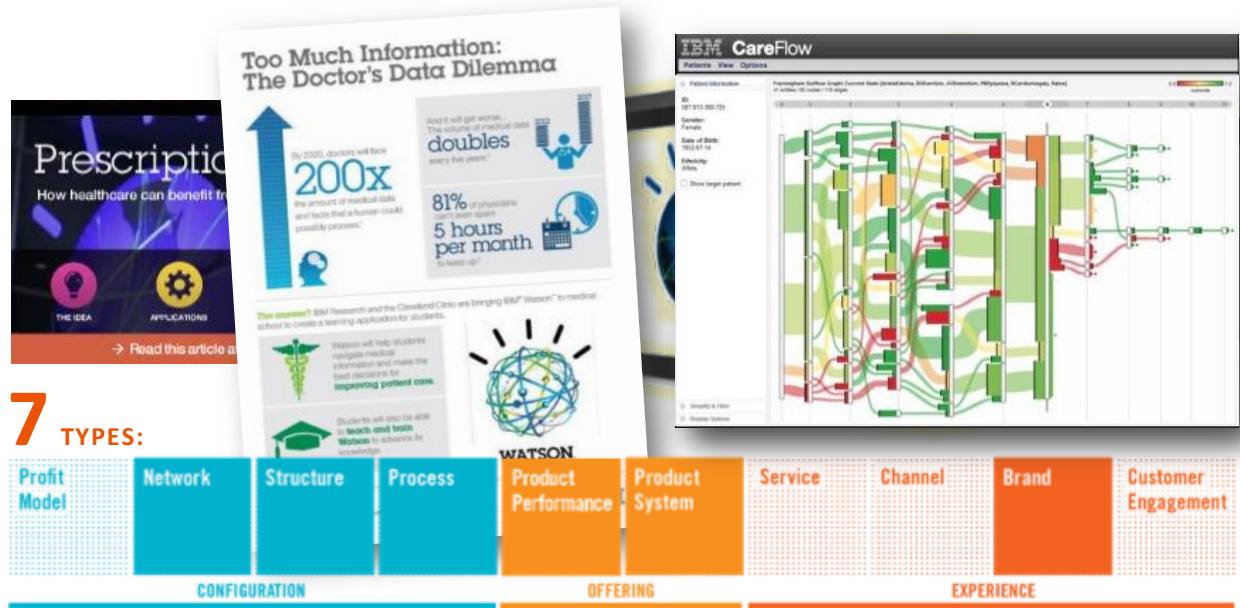


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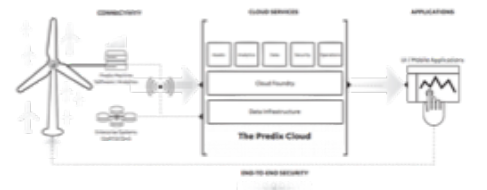
INNOVATION ASSESSMENT: IBM WATSON

*Cognitive computing adapted to medicine*



INNOVATION ASSESSMENT: GE PREDIX

*Converging digital and physical advances to drive huge productivity gains*

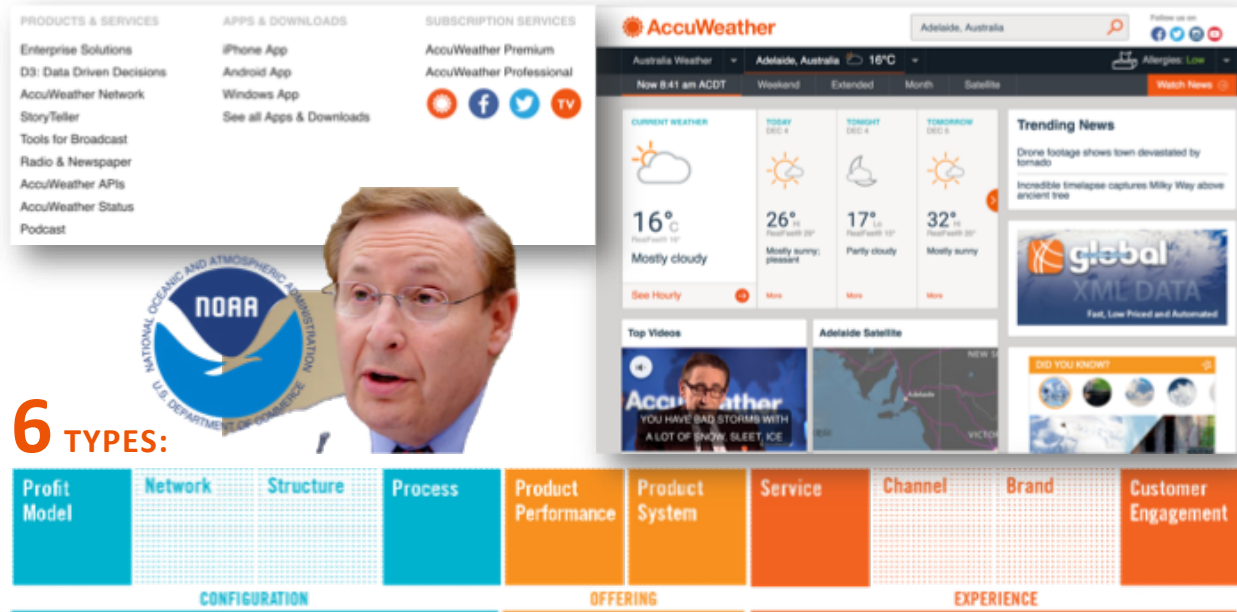


**9 TYPES:**



## ACCUWEATHER: INNOVATION ASSESSMENT

*Leading for profit business built entirely upon US government data sources*



## LIGHTWEIGHT INNOVATION IN A NUTSHELL: CLOUDS, CROWDS, PARTNERS & PRIZES

*Faster, more iterative development—with radically more open methods*

### 1. Catalyze & develop concepts

Identify and select the specific, robust tactics you can use to build your concept



Use crowd funding to financially support and catalyze new idea development

**KICKSTARTER**  
**indiegogo**

### 2. Discoveries & prototypes

Crowd source fast, cheap answers to focused market research questions



Quickly prototype and test physical objects using 3D printing



### 3. Solve tough problems

Drive sophisticated pattern recognition from a distributed expert network



Use open challenges and prizes to solve intractable or tough challenges



### 4. Initial build & pilot test

Use open networks to both accelerate and lower the cost of custom code



Rethink where and how to pilot products



### 5. Scale, expand & roll out

Leverage cloud architectures to radically lower the cost of digital innovation

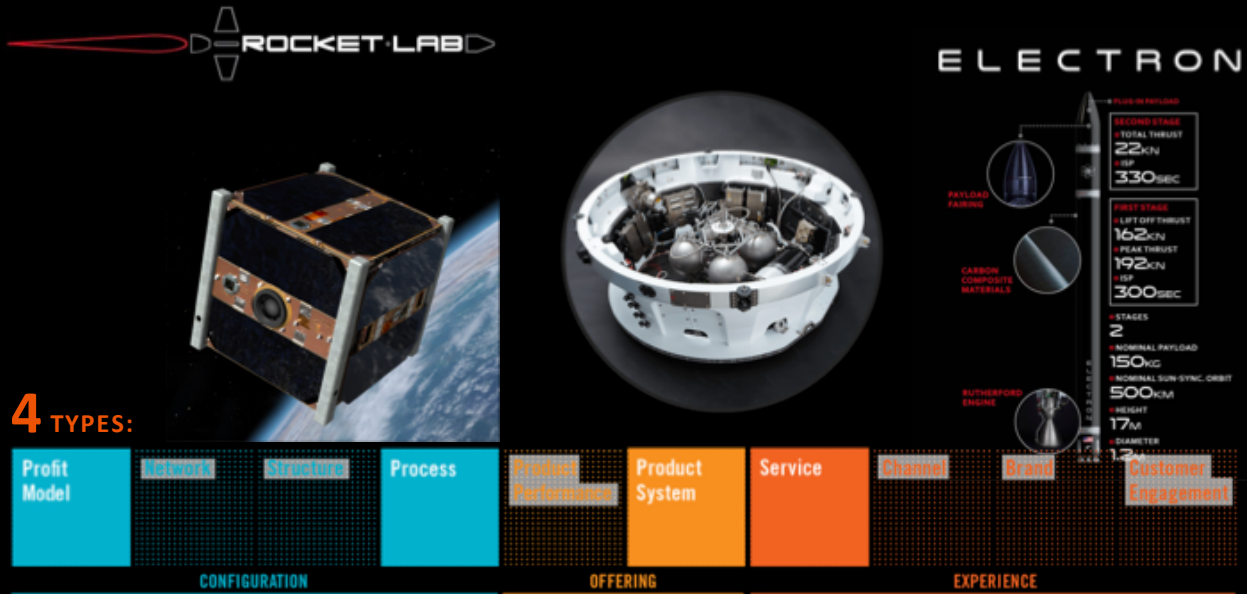


Co-construct with consumers to expand current offerings and find future ones



# INNOVATION ASSESSMENT: ROCKET LAB

*Low cost, delivery system designed for routine, frequent small satellite launches*



# CLIMATE CORPORATION: INNOVATING AROUND CLIMACTIC UNCERTAINTY

*Analytics, modeling, and rapid service for the "Age of Precision" Agriculture*



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# ECOSYSTEMS AMPLIFY VALUE...

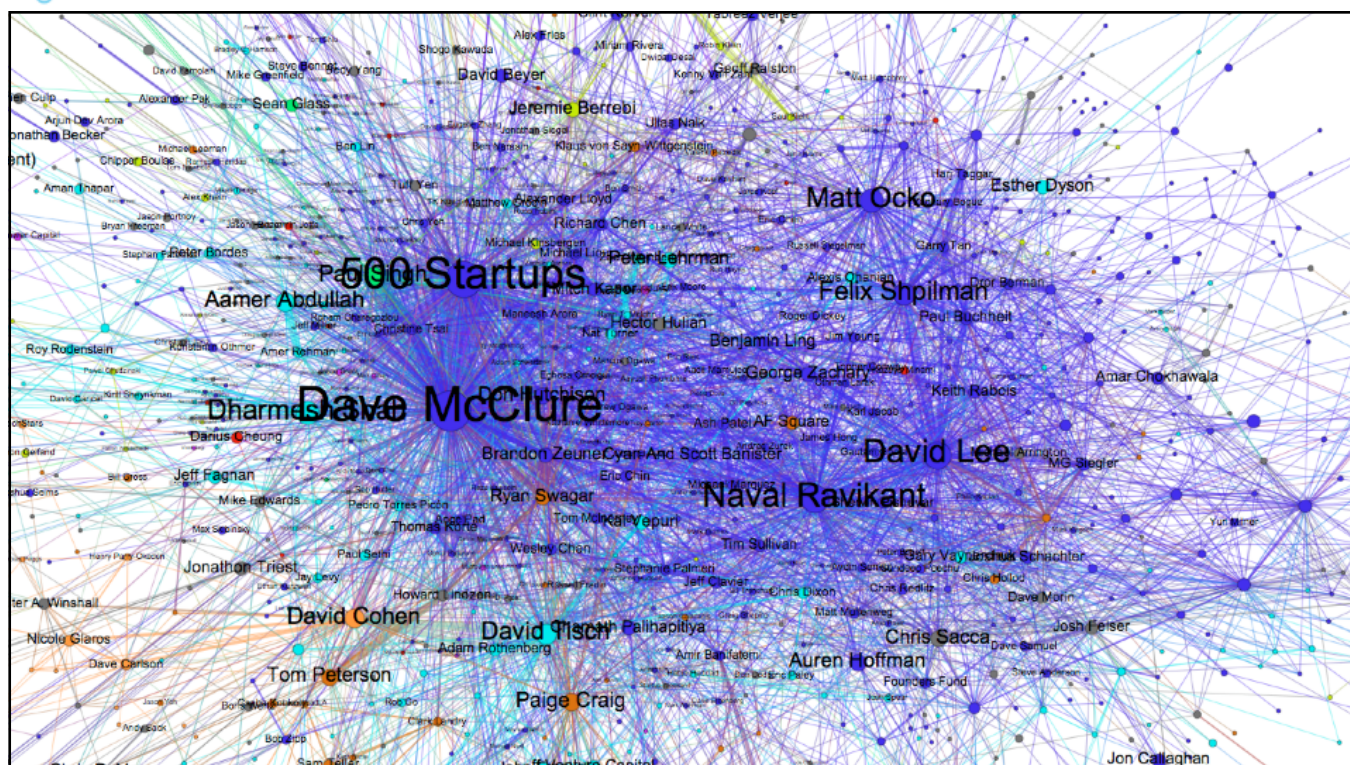
In a connected world, winners orchestrate  
entire industries in new ways.

Address this *with strong platforms  
that orchestrate many partners...*

4

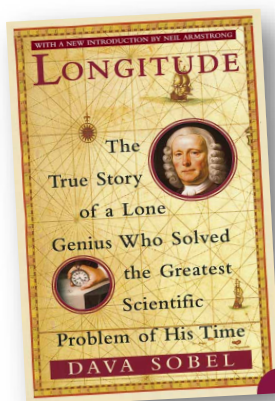






## PRIZES DRIVE INNOVATION WITH BIG PAYOFF

*Prizes have a deep innovation history—and fresh modern relevance*



AMAZON BLUE ORIGIN INNOVATION ASSESSMENT

*Blue Origin moves Cloud Computing infrastructure into space...*



**7 TYPES:**

Profit Model	Network	Structure	Process	Product Performance	Product System	Service	Channel	Brand	Customer Engagement
--------------	---------	-----------	---------	---------------------	----------------	---------	---------	-------	---------------------

CONFIGURATION      OFFERING      EXPERIENCE

6<sup>TH</sup> SA SPACE FORUM, ADELAIDE, DECEMBER 2018



**Go get 'em!**

For access to today's notes:  
[clientweb.doblin.com](http://clientweb.doblin.com)

Event Code: **SA Space Forum**

Questions?  
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