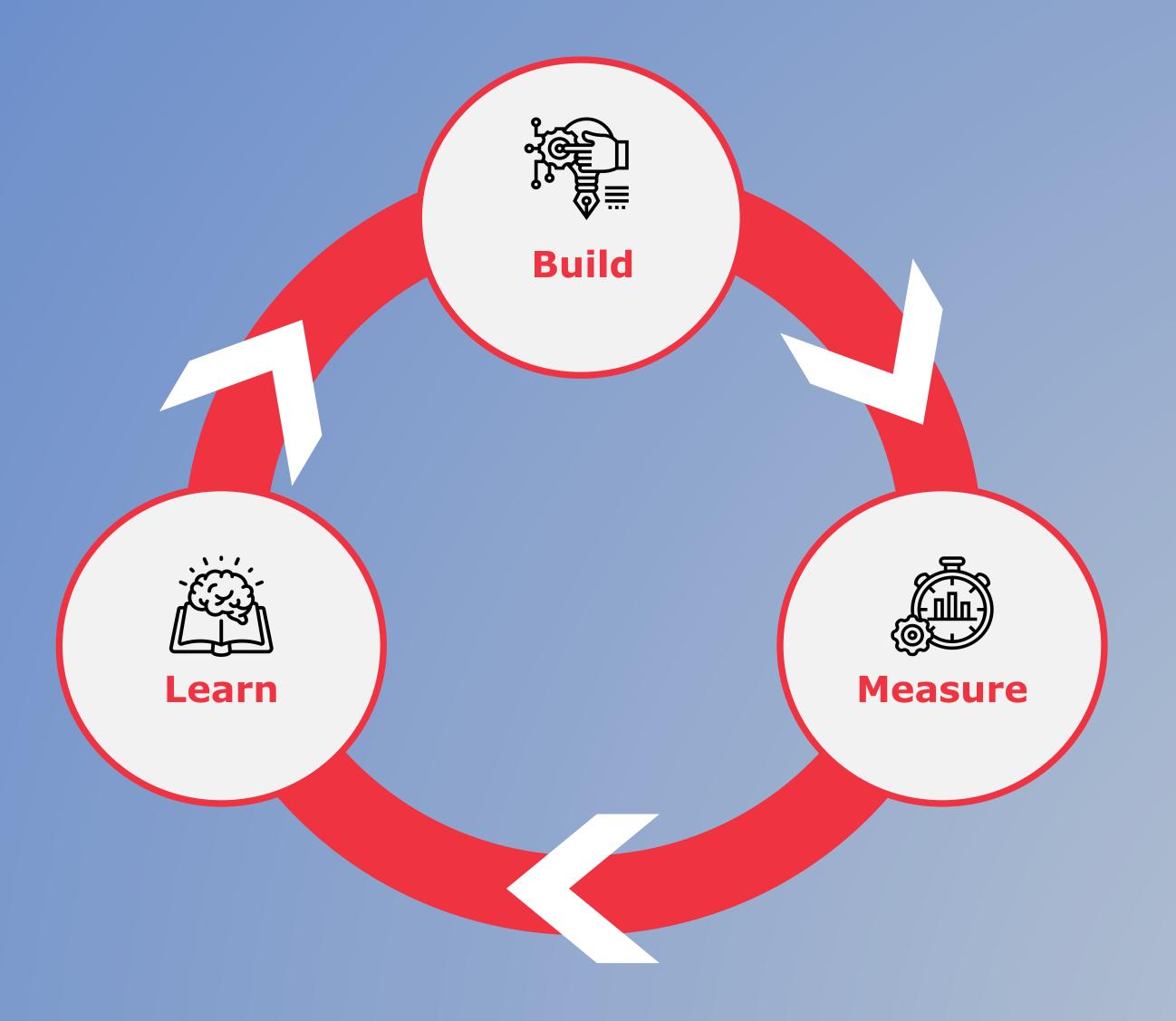


BUILDING PRODUCTS with Agile Development

SEAN AMMIRATI

Distinguished Service Professor of Entrepreneurship, Tepper School | CARNEGIE MELLON UNIVERSITY Co-Founder, Corporate Startup Lab | CARNEGIE MELLON UNIVERSITY Generative AI Fellow, Center for Intelligent Business | CARNEGIE MELLON UNIVERSITY

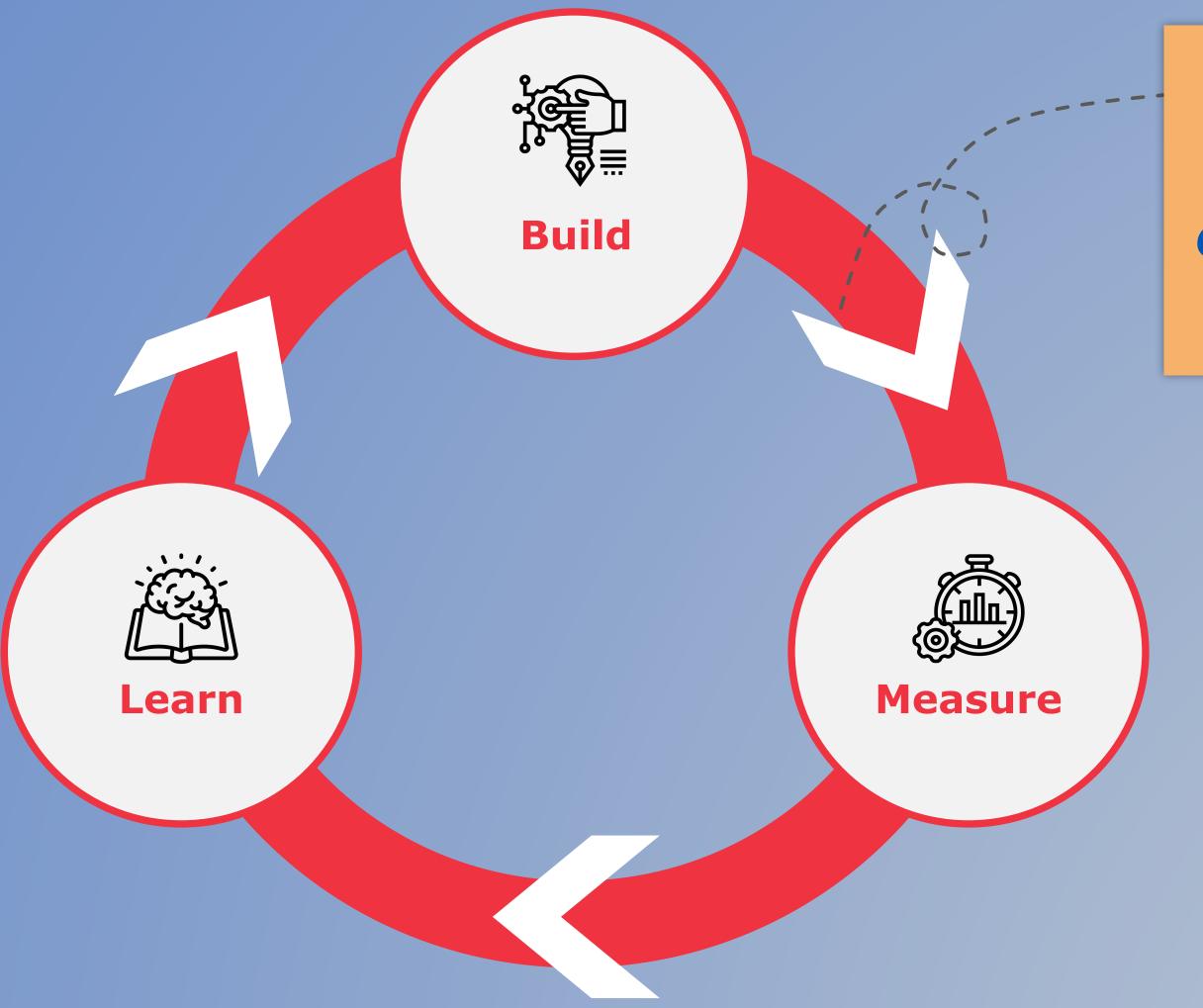












Time is not spent equally across these 3 activities





What do you build?

that version of a new product [or service] which allows a team to collect the maximum amount of validated learning about customers with the least effort.





FIVE MISUNDERSTANDINGS ABOUT MYPS



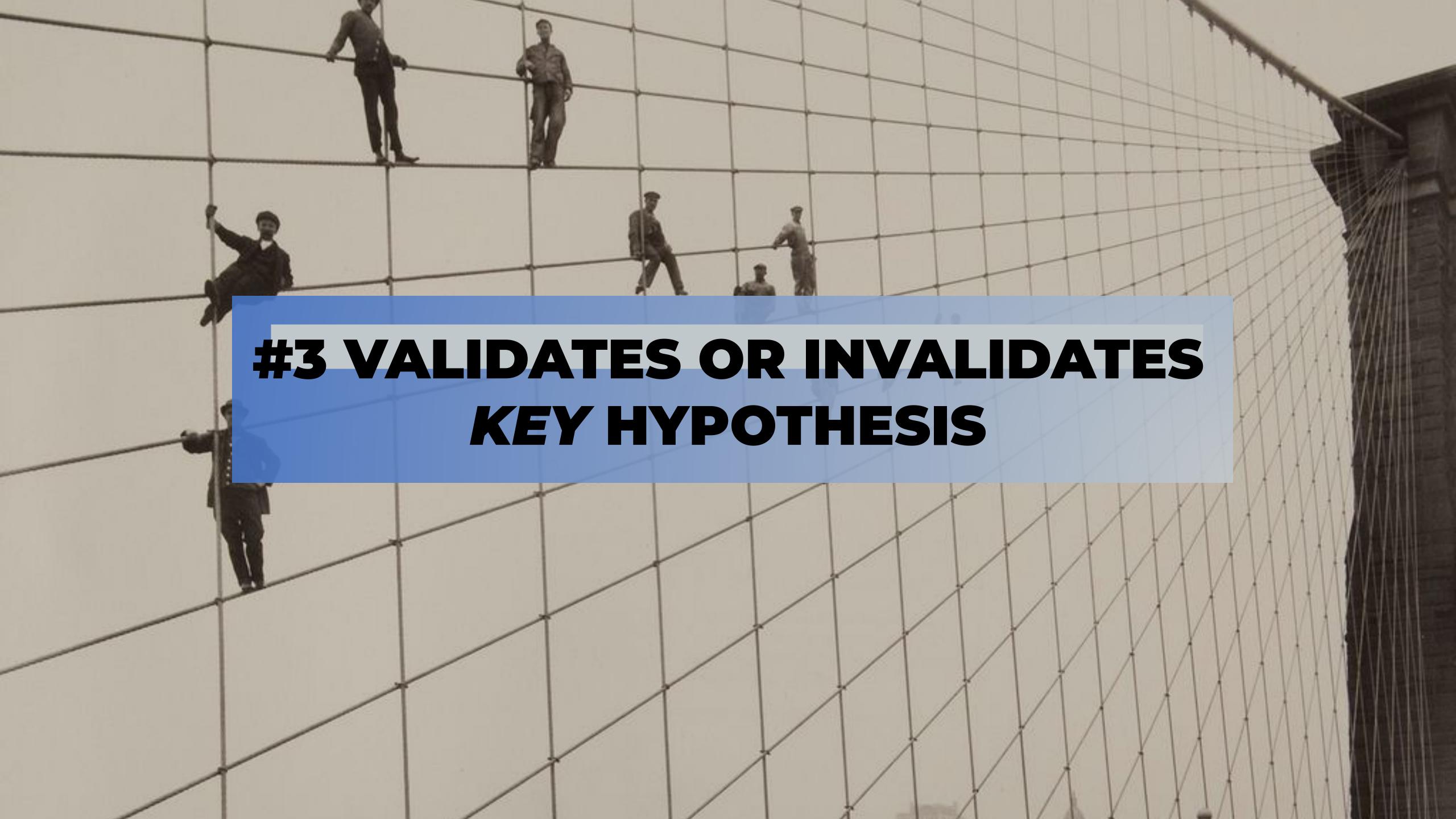






What do you measure and learn?

	MAPS #1 > CONCEPT	MAPS #2 > P-M EVAL	MAPS #3 > P-M FIT
	MAP #1 PPC Campaign Landing Page	MAP #2 Product Drawings Detailed Spec	MAP #3 Prototype Functional Output
CUSTOMER INTERACTION	Features / Benefits description 'More info' Call to Action	Face-to-face technology demo	Field Pilot
LEARNING OBJECTIVE	Market insight Find early adopters	Locate Strategic Partners Seed Funding Paid-beta customers	Revenue Customer Validation Capital Investment
INVESTMENT	\$	\$\$	\$\$\$



#4 DOESN'T HAVE TO BEAPRODUCT AT ALL







1. Storyboards



(examples)



2. Landing Pages



ങ്ങ് 3. Demo Videos



4. Wizard of Oz







Storyboards

A panel or series of panels of rough sketches outlining the sequence of events a consumer will experience before, during and after using our product / service.





Landing Page: High Performing



User Centric



Clear & Concise



Conversion Focused



Shareable



Measurable



Consistent





Demo Video

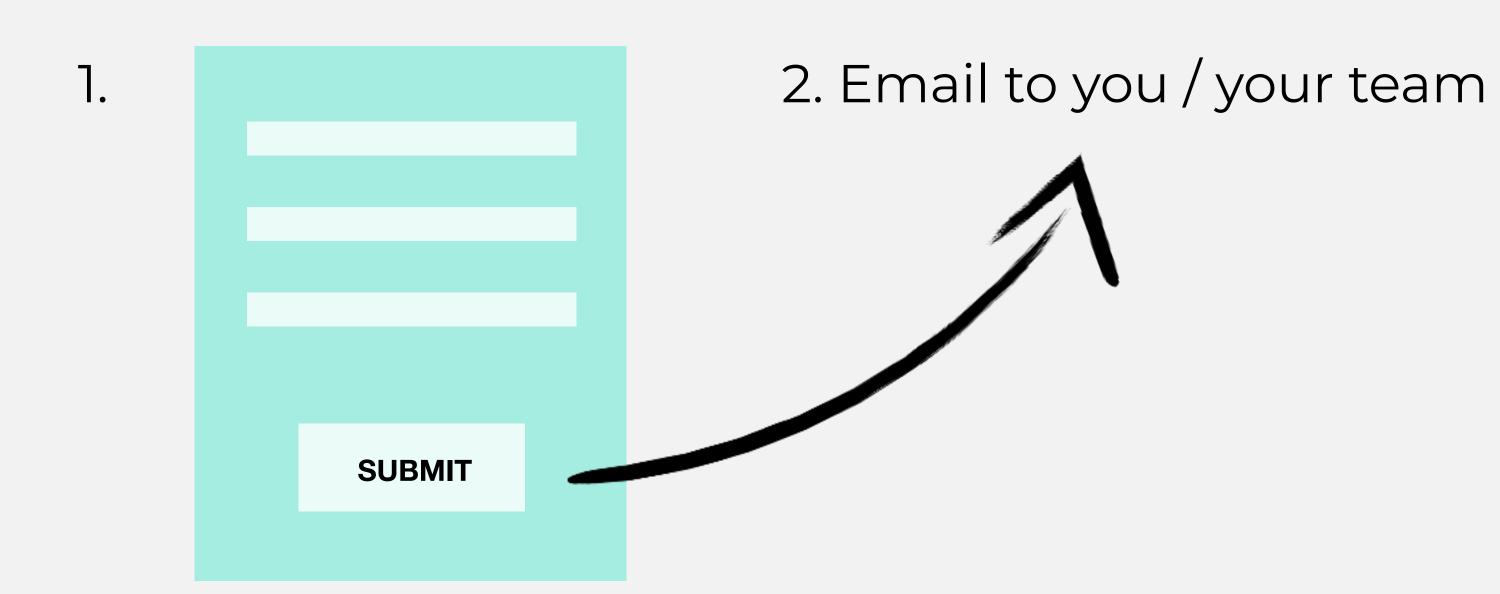


https://www.youtube.com/watch?v=7QmCUDHpNzE





Wizard of Oz

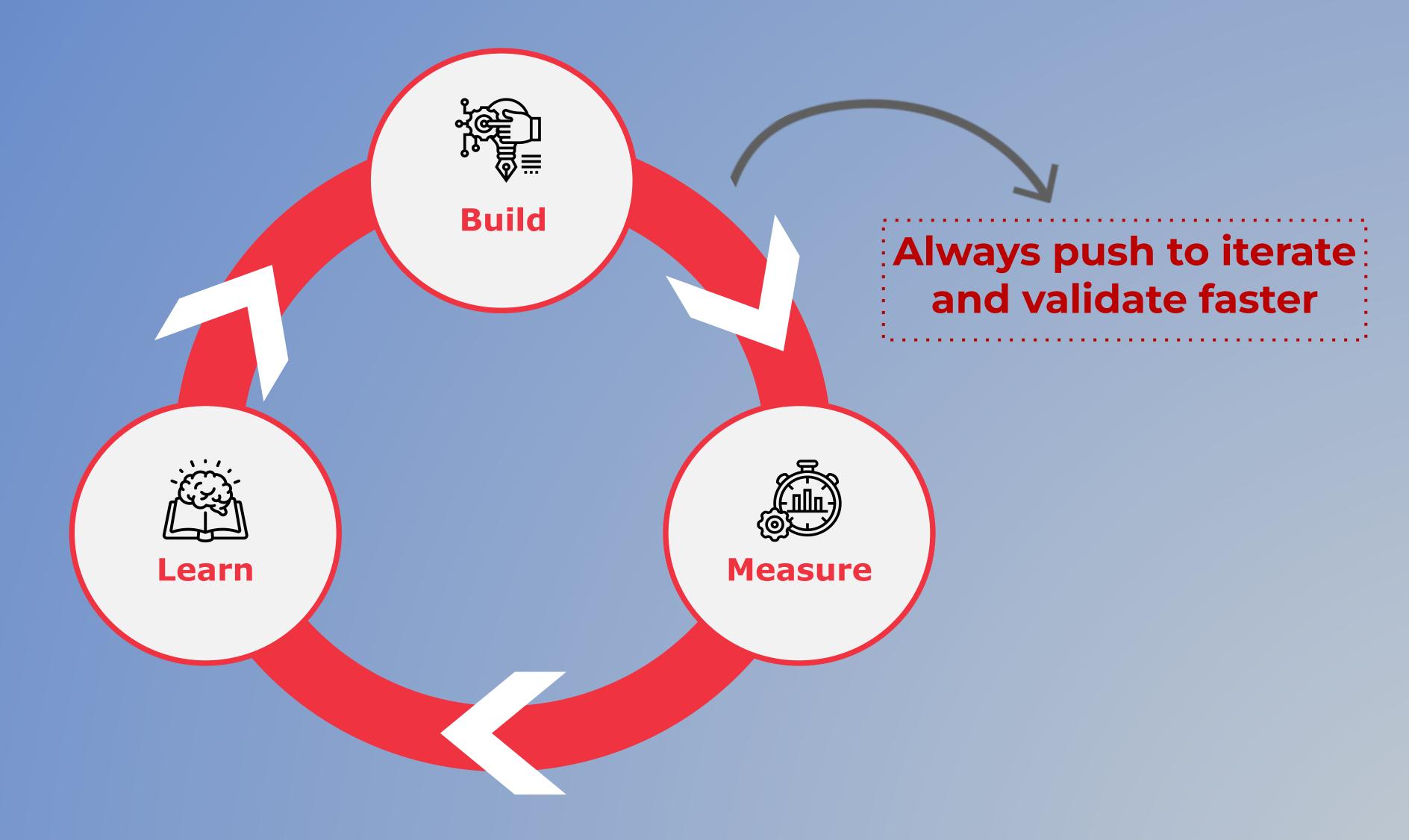


3. "Automated" Response















Generative Al is transformational:

Across lifecycle of startup development

Phase 1: Ideation Phase 2: Idea Validation

Phase 3: Scaling Up

Brainstorming

Developing Project Names

Mind Mapping Assistance

Competitive Gap Analysis

Developing an Ideal Customer Profile (ICP)

Every single MAP described earlier can be created faster & better with Generative Al:

Storyboards

Landing Pages

Wireframes

Manual Prototypes

Plus many others

Go-To-Market Plans

Revenue Model Strategies

Pitch Deck Development





Generative Al is transformational:

3 Keys to Effective Utilization

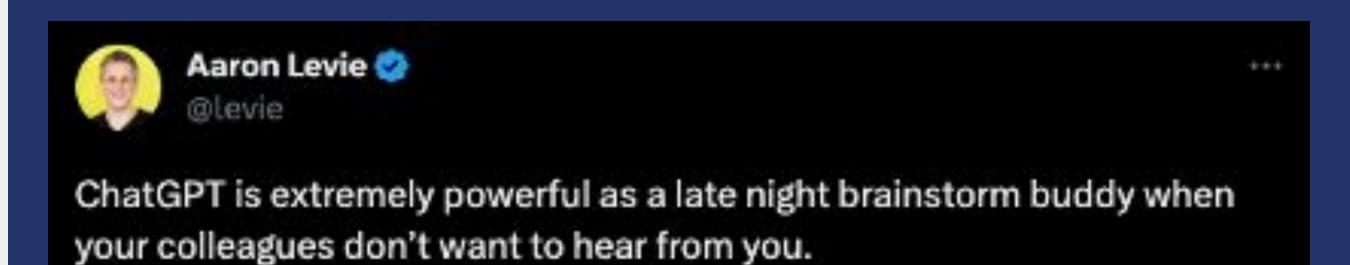
- Proper Prompting (TELeR Taxonomy)
- Proper Decomposition of Tasks
- Proper Integration of External Data & Systems





Generative Al is transformational:

Example: Brainstorming

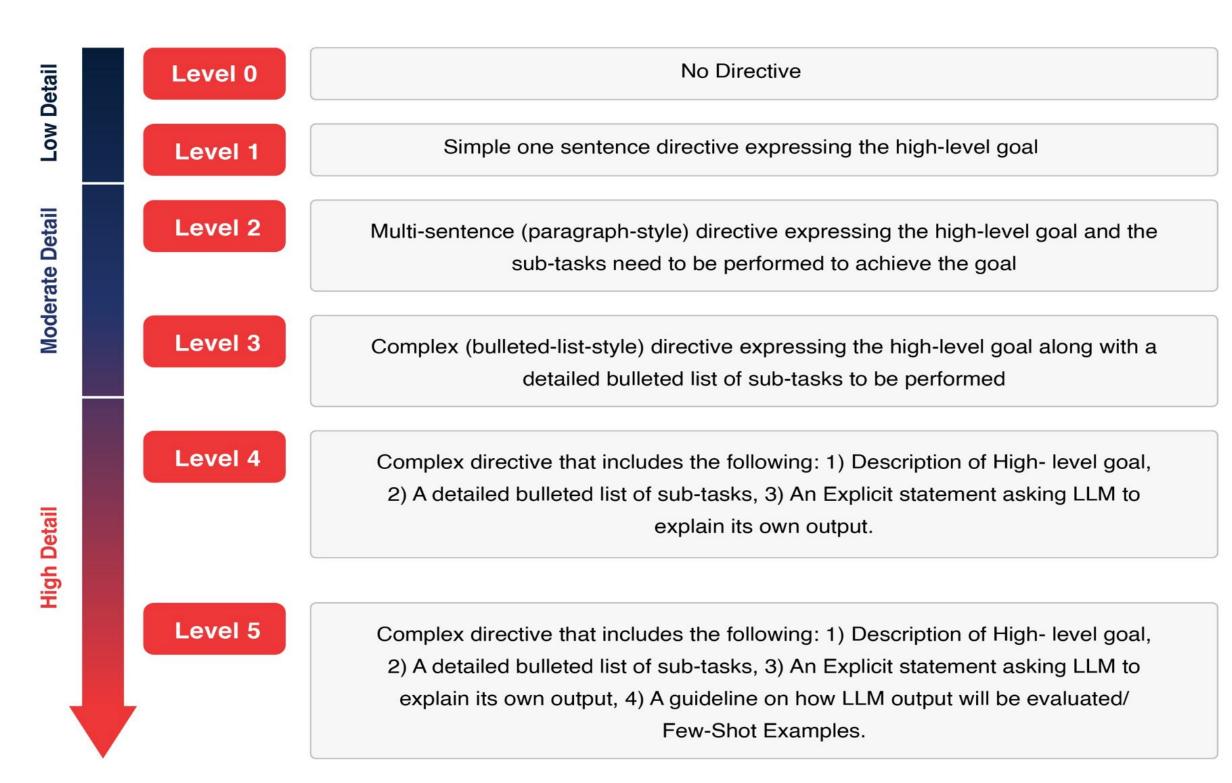


1:40 AM - Jul 11, 2023 - 37.4K Views





Brainstorming:Single Prompt



Five Levels of Detail for LLM Prompts (from TELeR taxonomy)

Source: https://arxiv.org/abs/2305.11430

Brainstorming: Single Prompt

Directive 1: Description of High-Level Goal

Develop a new startup idea for a entrepreneur skills / experiences. A good startup idea will include the following attributes: entrepreneur profile who has <a href="entrepreneur profile and should take advantage of <a href="entrepreneur profile and should take <a href="entrepreneur

Directive 2: A Detailed Bulleted List of Sub-Tasks

To develop a startup idea, you need to come up with an idea that you believe <entrepreneur profile> should focus on given the information above. Then walk through the following steps to flush this startup idea out:

First, project the size of the opportunity. In other words, if this idea was successful how much value would an entrepreneur accrue. For <entrepreneur profile> this needs to be at least <entrepreneur min goal> Second, provide some evidence that customers would be interested in this startup idea and who the ideal customer would be for it. Third, provide an overview of the high level steps <entrepreneur profile> should take to initially explore this idea. Finally, provide your summary of the strengths and weaknesses of the startup idea.

Directive 3: An Explicit Statement Asking LLM to Explain Its Own Output Provide justification for your suggested startup idea by explaining why you are recommending it.

Directive 4: A Guideline on how LLM output will be evaluated / few shot examples

A good justification should be coherent and in English only. It will include the following information:

The first section should include an overview of the idea, often described as an elevator pitch. This section should be less than 300 words.

Next should be your justification of why you are recommending the startup idea and should be less than 250 words.

After that you should provide your explanation of the size of the opportunity and should be less than 200 words.

After that you should provide your evidence that customers would be interested and finish that section with a summary of your ideal customer profile.

Then you should include a bulleted list of the high level steps to initially explore this startup idea.

Finally, provide your summary of the strengths and weaknesses of the startup idea. This should be done as two bulleted lists: first a list of strengths and then a list of weaknesses. Examples of similar ideas that <entrepreneur profile> finds compelling include <startup examples.>

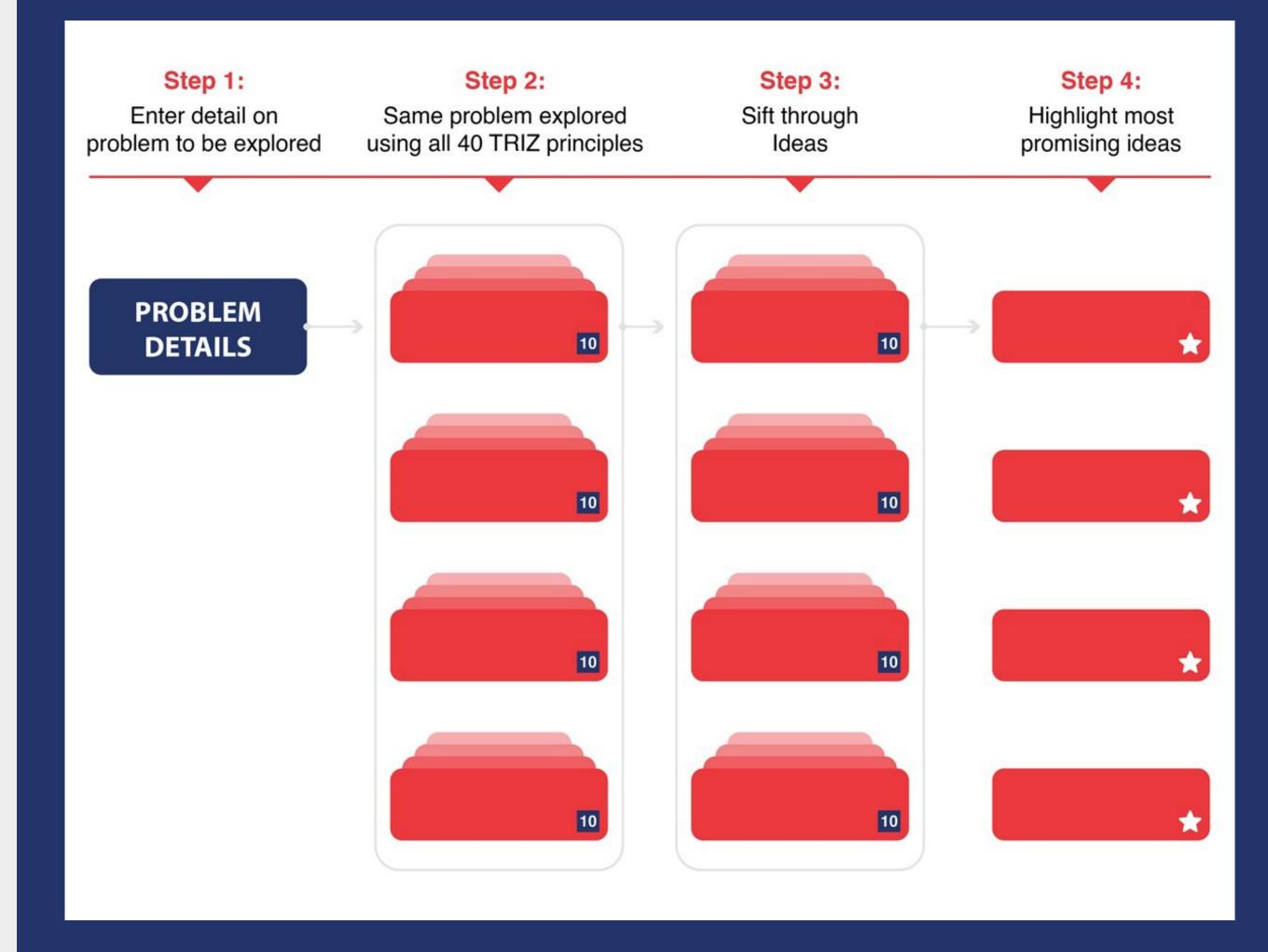
Carnegie Mellon University
Tepper School of Business





Brainstorming:

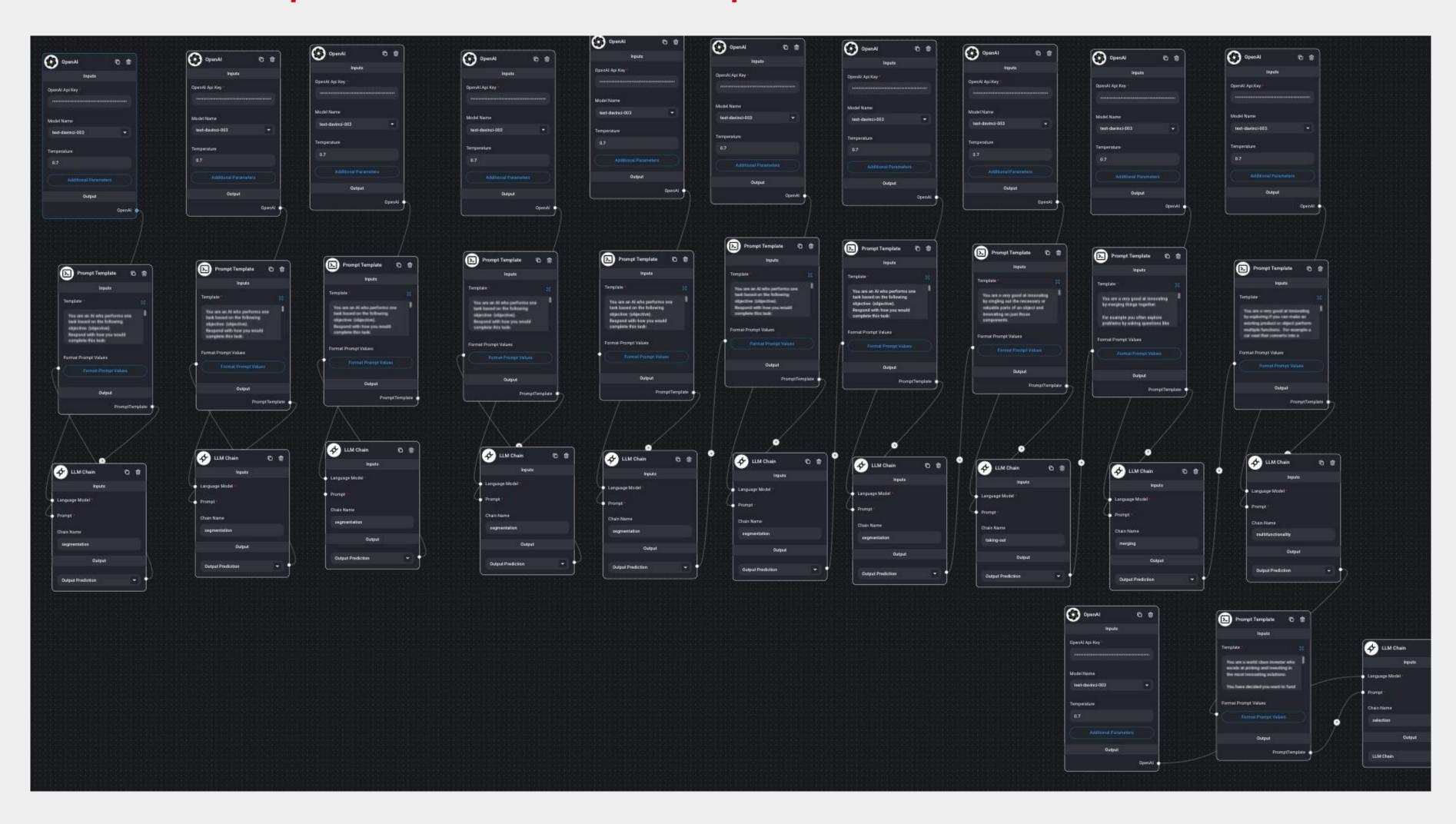
Proper Decomposition Example





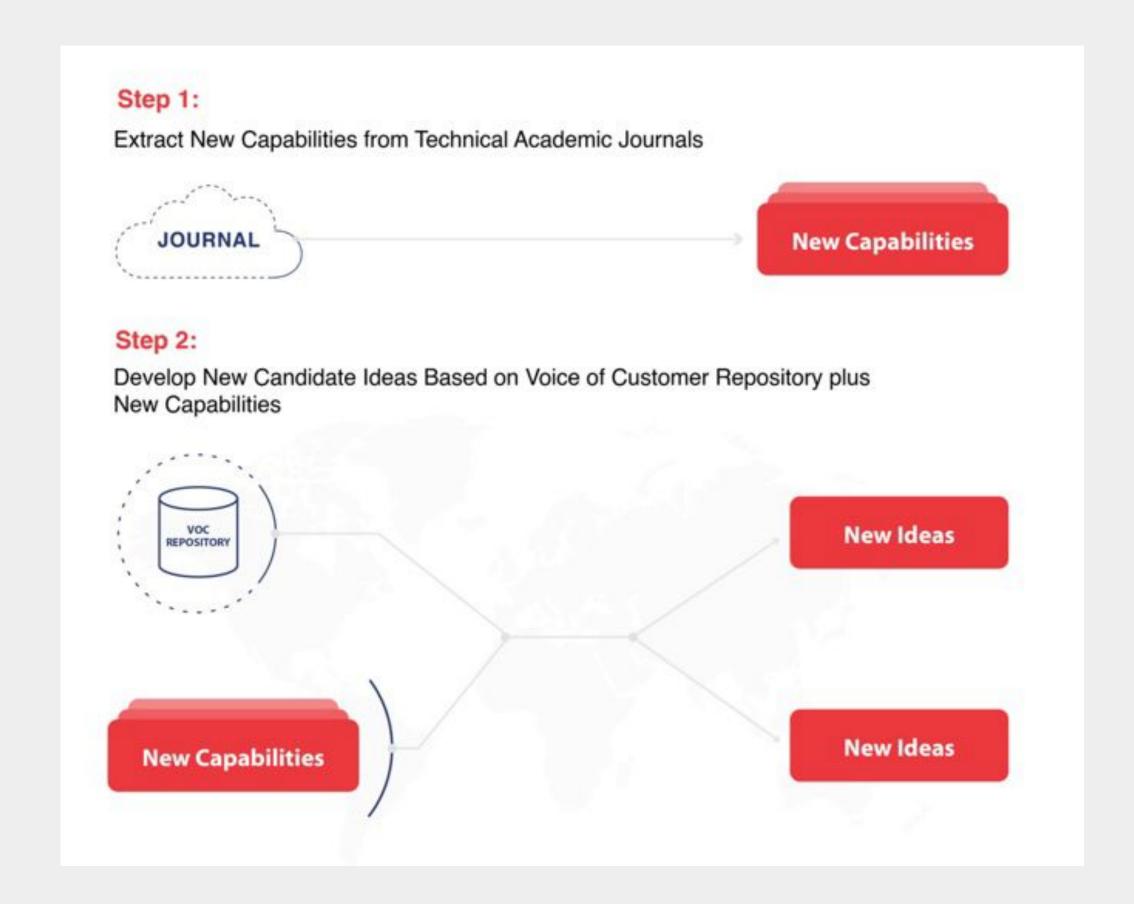
Brainstorming:

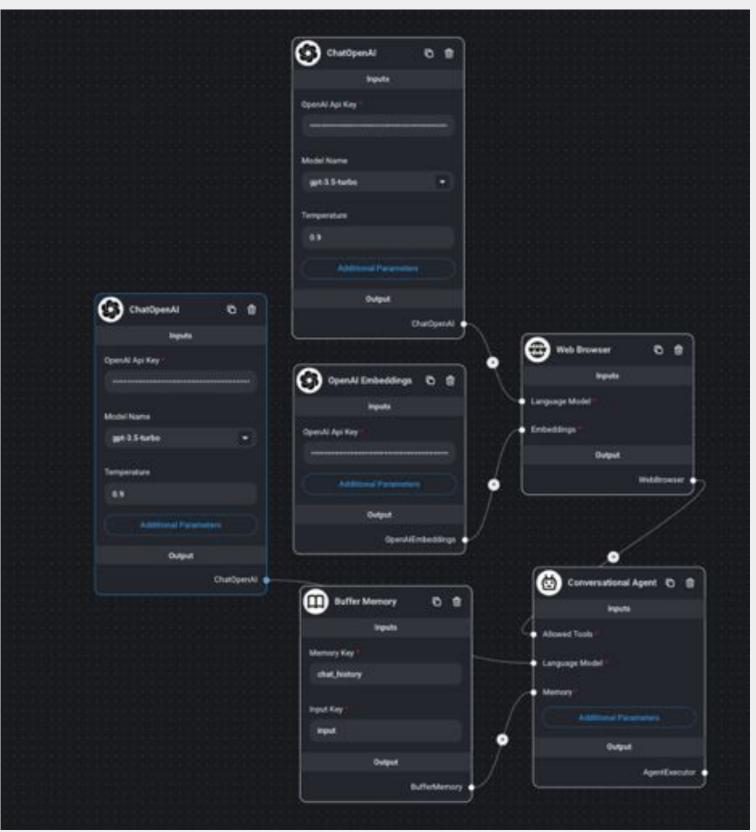
Proper Decomposition Example



Brainstorming:

Proper Integration Example





7

How do you build? AGILE DEVELOPMENT









What do we mean by AGILE?

We value...

Individuals & Interactions over process and tools

Working products over documentation

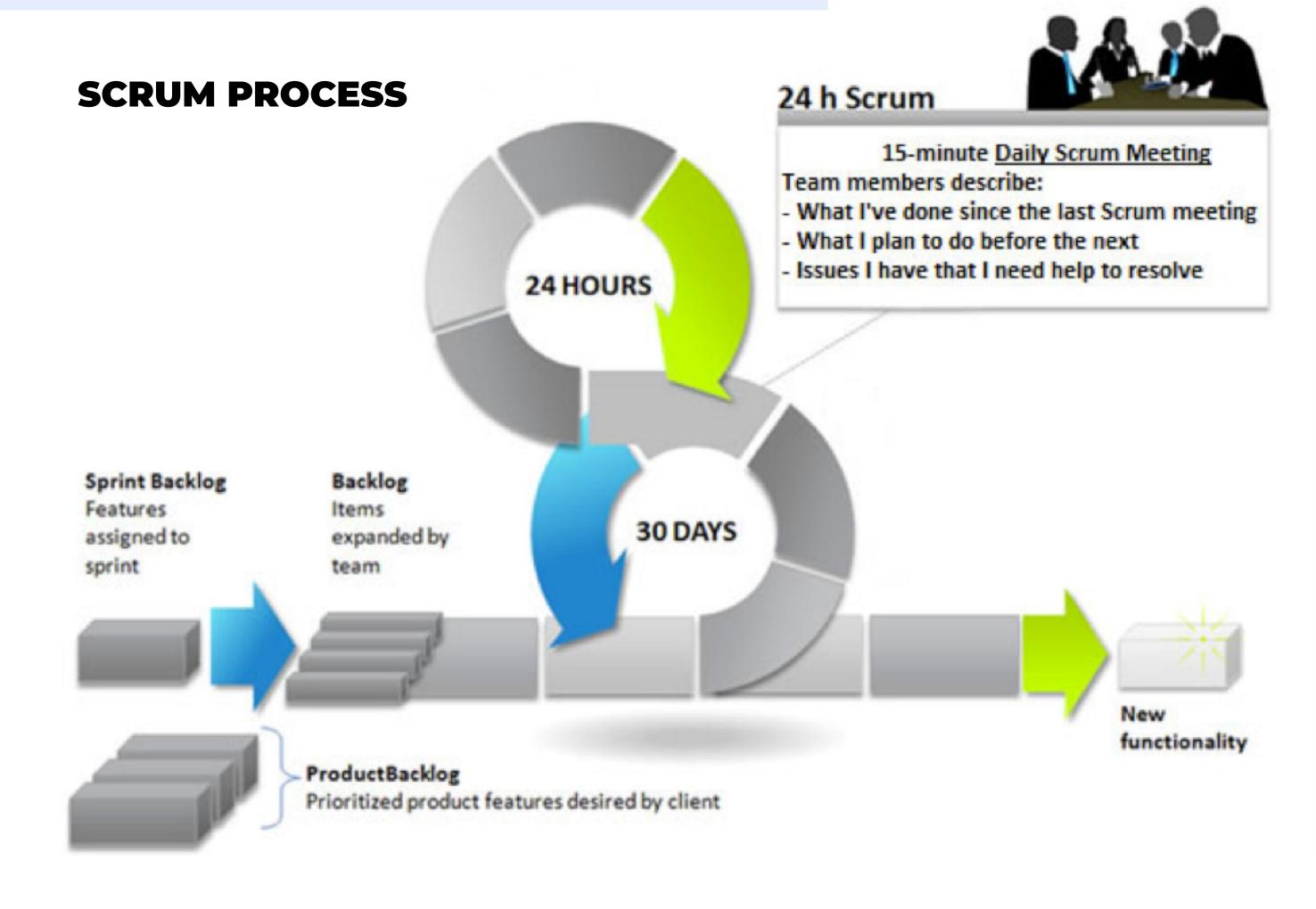
Customer collaboration over negotiation

Responding to change over following a plan





The process of scrum?







Velocity/Burn Down

The average decrease in estimates for the total effort / time remaining is a sprint's velocity

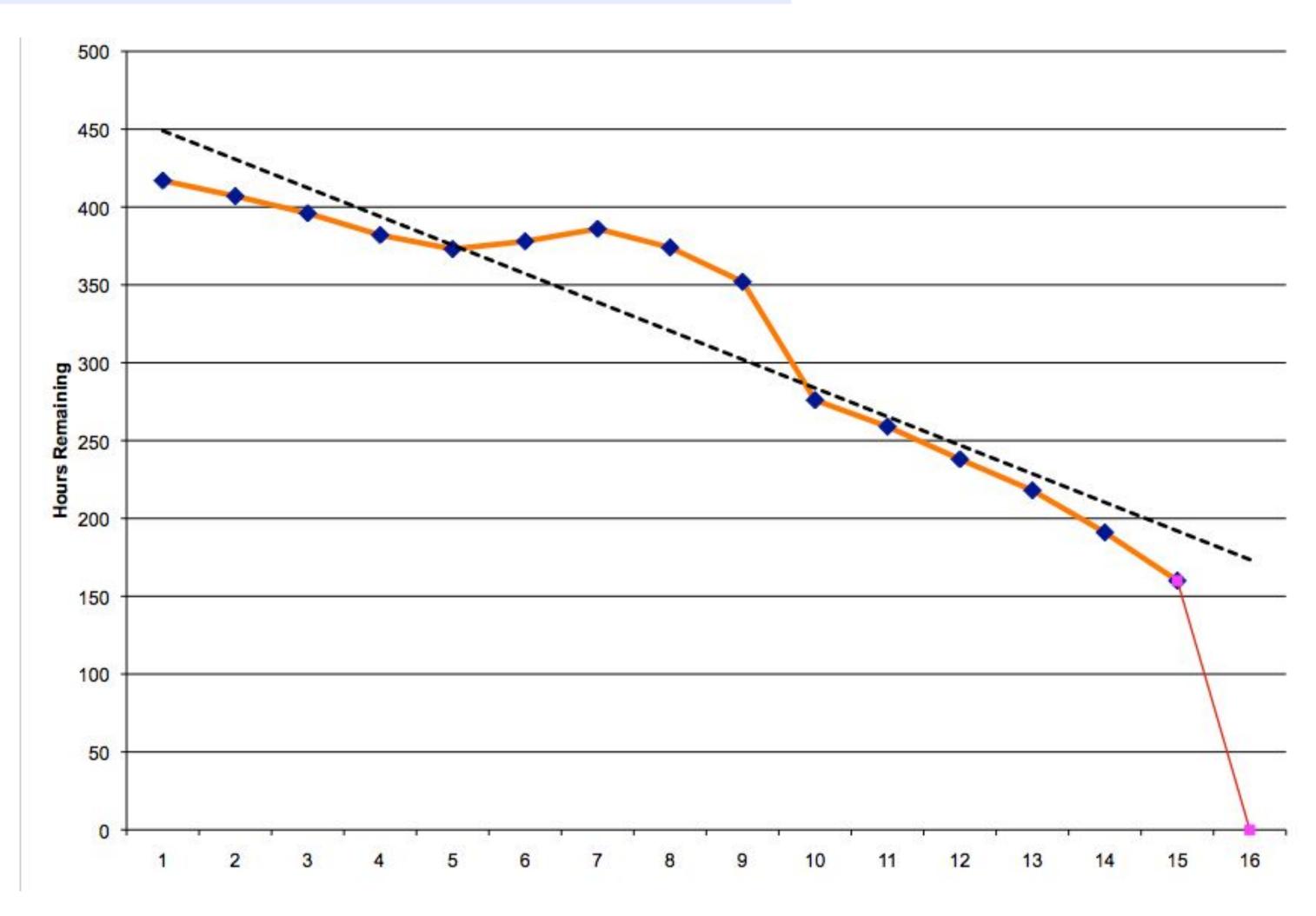
Overtime velocity becomes very helpful for planning purposes

The chart showing daily total of time remaining is called a burn down chart or sprint's signature



Velocity/Burn Down



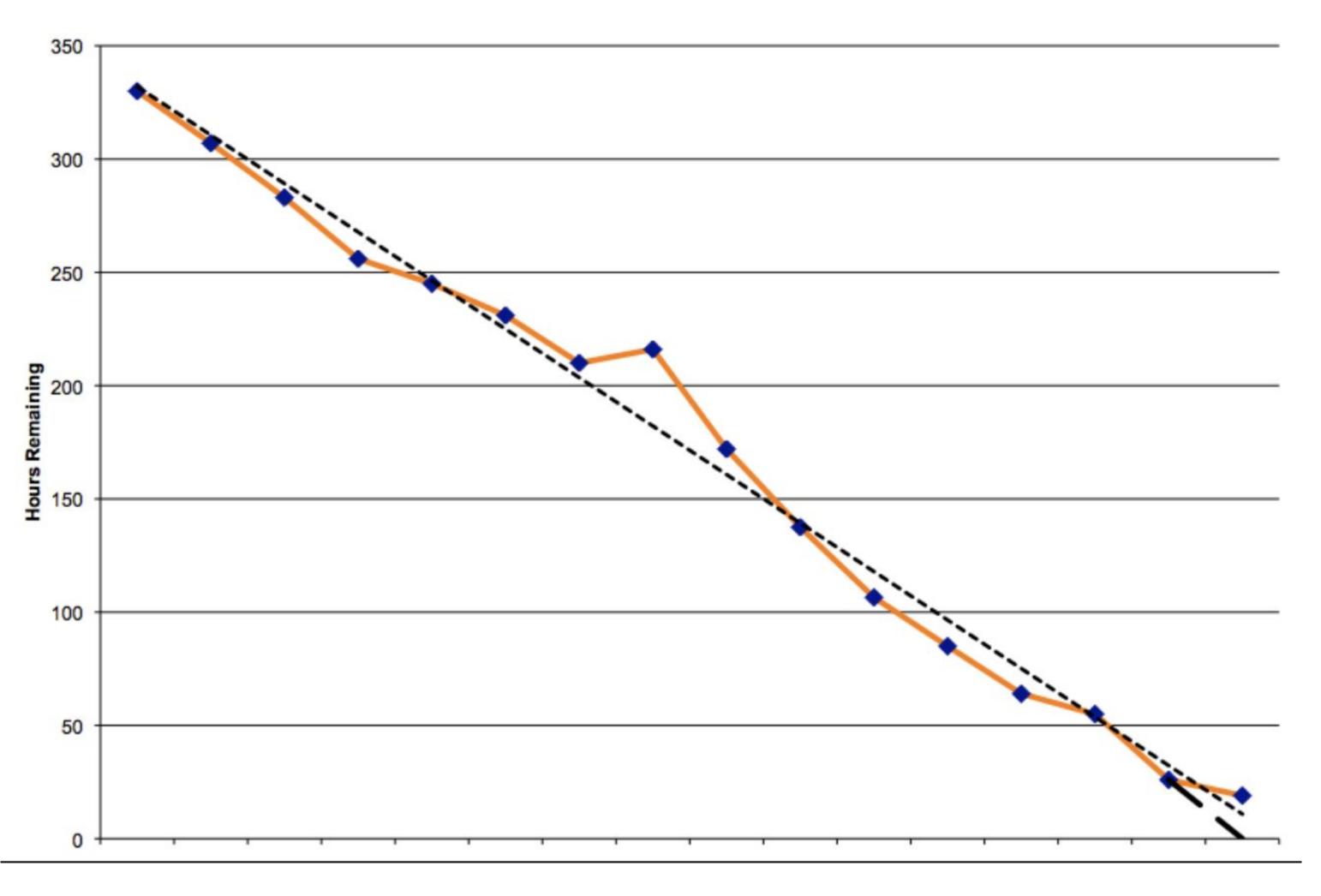








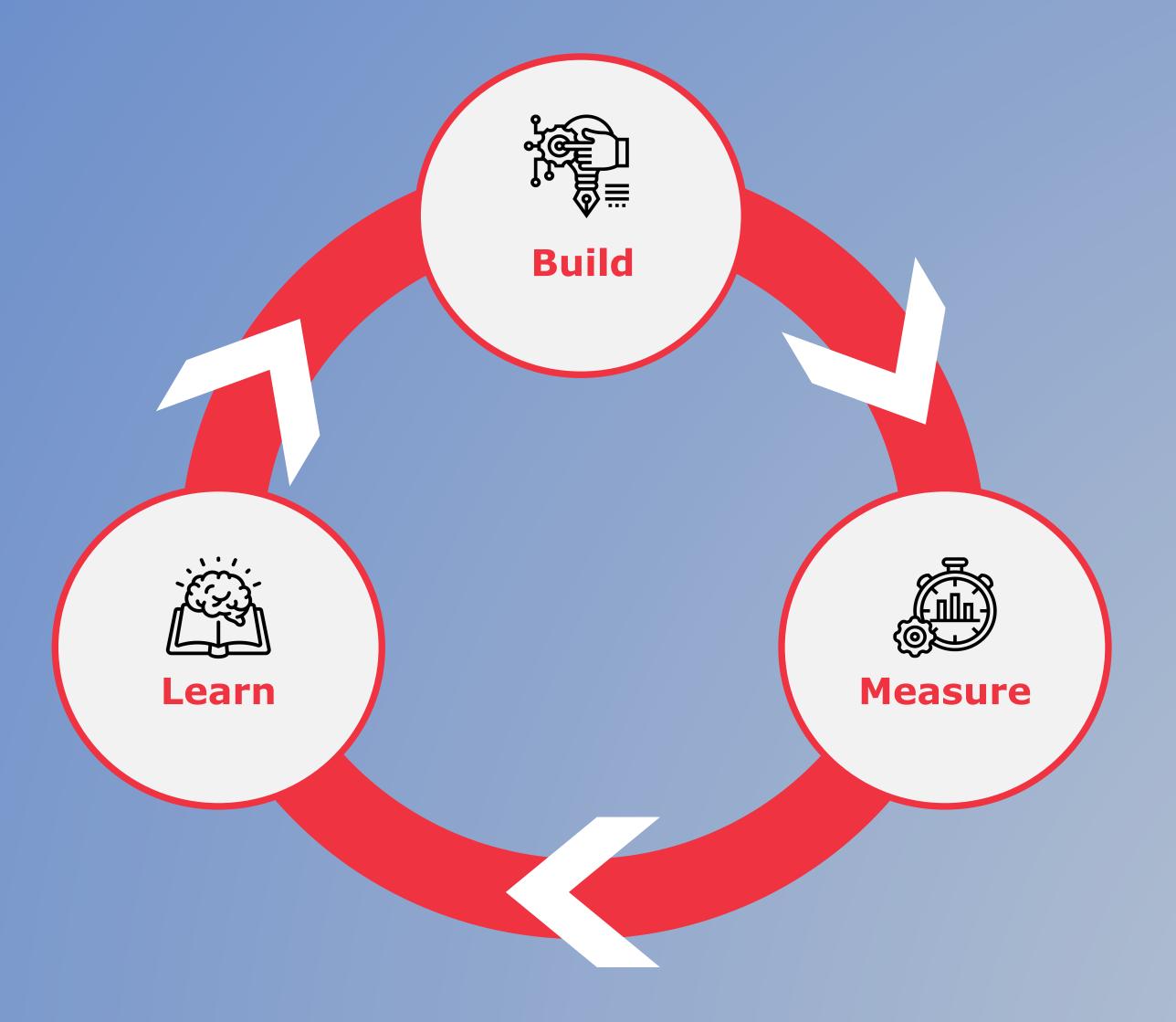
















Thank you.



