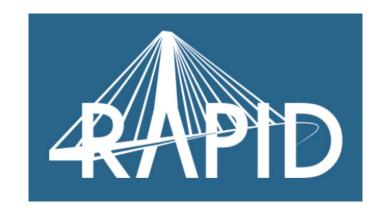


# **RAPID**

(Real World Application Platform for Innovation and Development)

Isaac Chang, PhD
Deputy Director, Office of Computational Science
Office of Translational Sciences, CDER, FDA



# **Overview of RAPID**

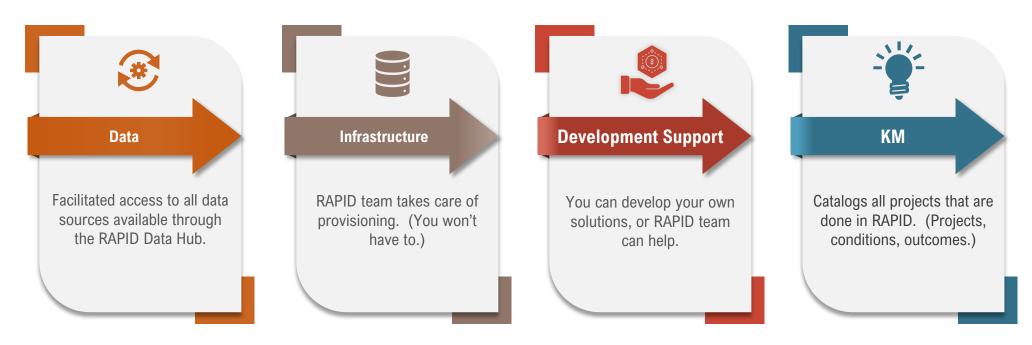




# What is RAPID?

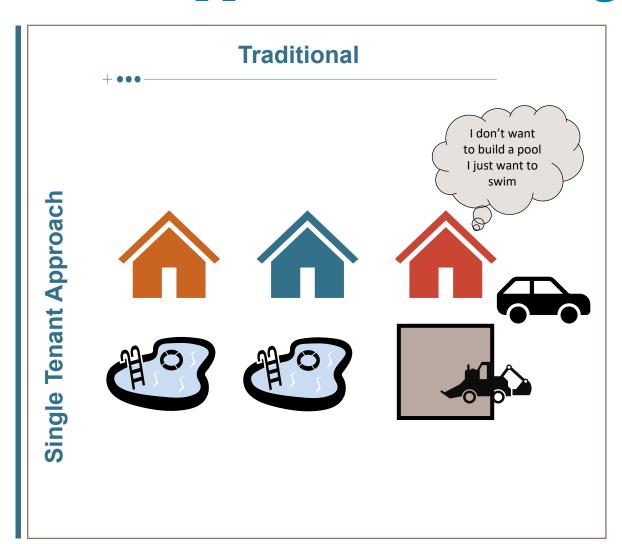


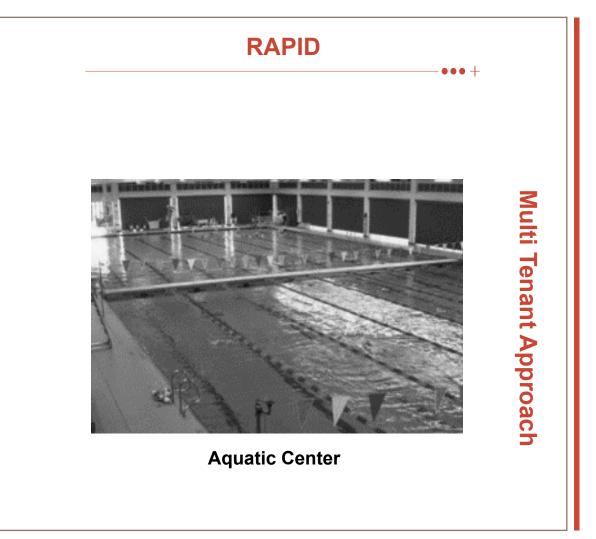
- Innovation as a Service (IAAS) platform.
- Experimentation Sandbox and Implementation Environment in the AWS GovCloud.
- Designed to explore data sets, develop and test new analytics.
- Minimizes the barriers to designing analytic solutions by bringing together:



# **New Approach to Building Analytics**



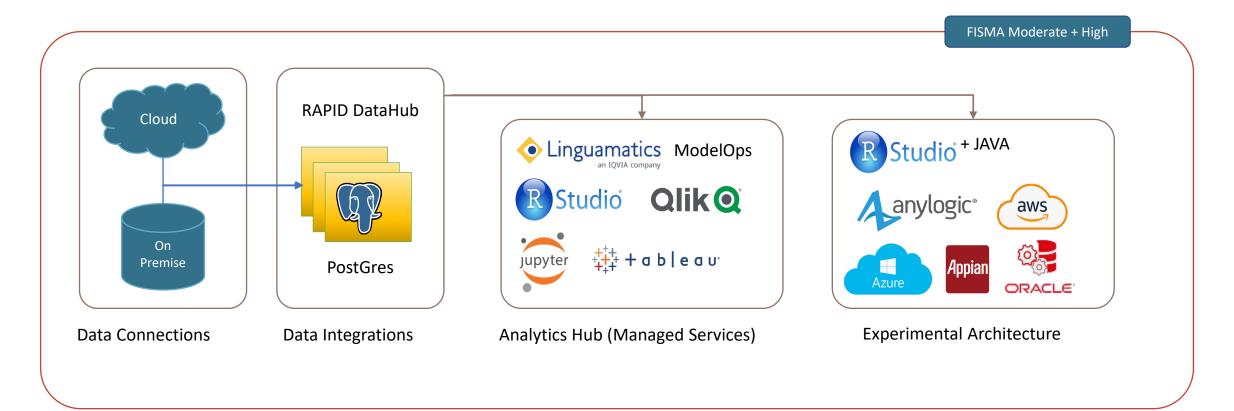




## **RAPID Architectural View**







5





# **RAPID Functional View**





#### **RAPID**

## Concept Development

(An Idea... Not end-to-end)



**FEASABILITY** 

### Prototype Development

(Concept + Business Use Case)



**VIABILITY** 

## Prototype Testing

(Reproducibility + Performance)



**SUSTAINABILITY** 

6

#### Not in RAPID

## Operations







# **How to Get Started**









### Intake Process

- Intake of internal projects through the CDER Innovation Board Webpage
- Additional resources available on the RAPID landing page.

#### Assessment

- Technical Assessment
- Understand Business Need
- Fits the Charter
- Coordinate Timing

## Service Level

#### Self Service

Use the Analytics Hub facilities as-is. Designed for people who need quick access and a place to do their research work.

#### Facilitated Access

Data connections or custom workspace.

Designed for people who need to connect to data or need a configurated infrastructure. All other work is done by tenant.

#### Full Service

RAPID Team builds your concept/prototype.



