

Cloud Computing Panel

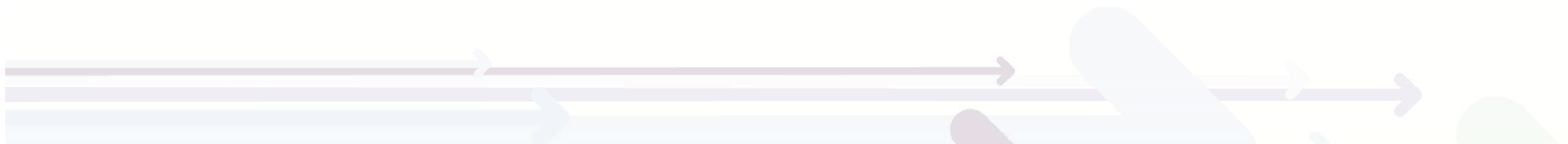
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Panel Participants

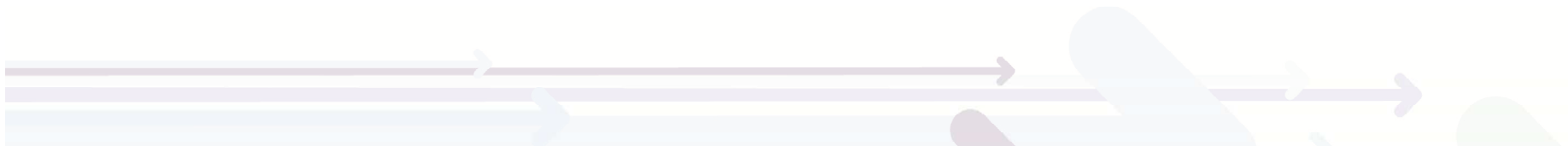
- Steven John – CIO, H.B. Fuller
- Mark Bluhm, VP of Thomson Reuters
- Edward Ferron, Senior Consultant, Digindeer

Moderator: Dave Walstad - Virteva

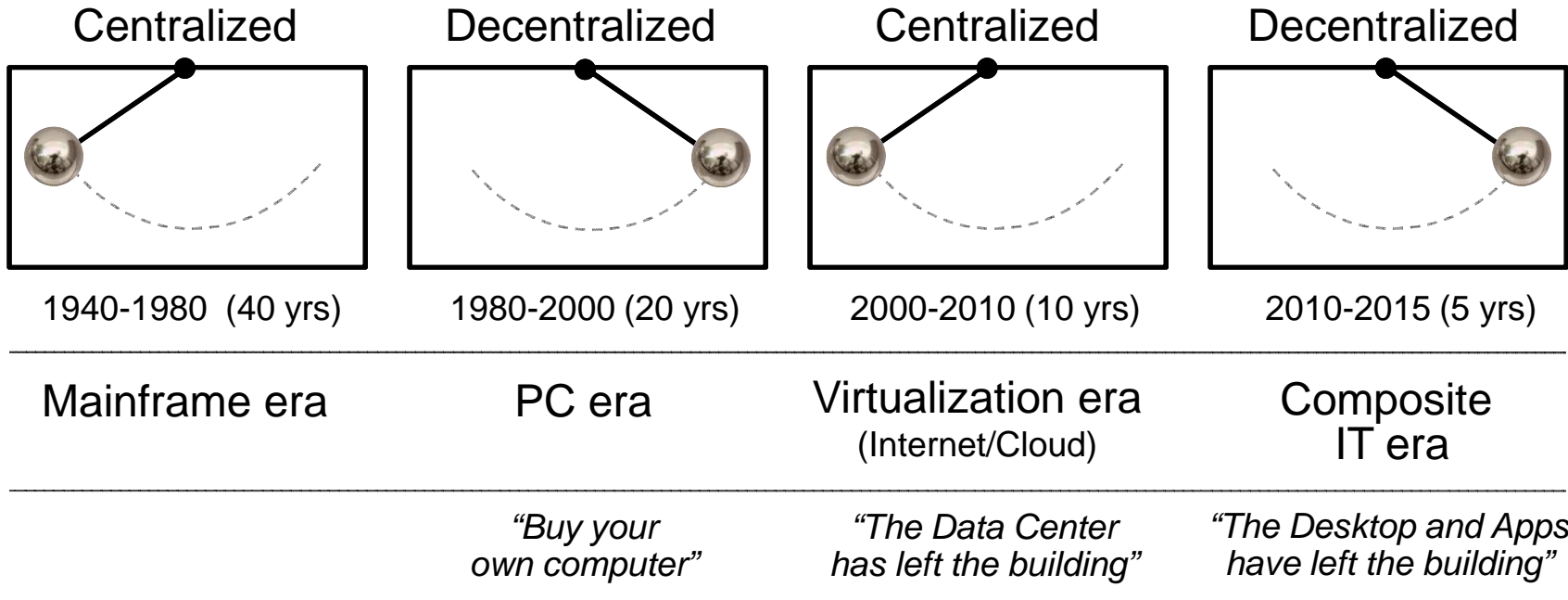


Overview

- Opening remarks
- 15 minute presentation from each panelist
- Question & answer session

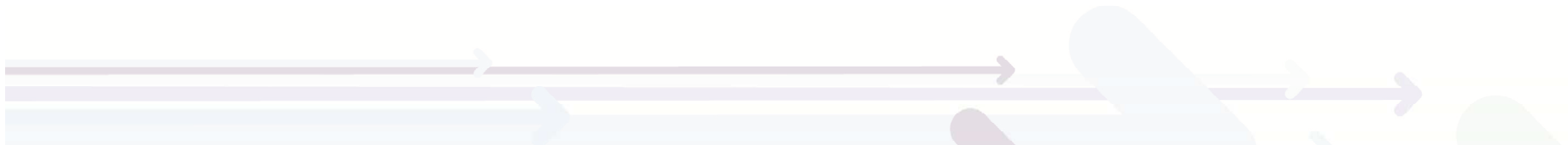


Déjà vu all over again



Prevailing Service Models

- **Software-as-a-Service (SaaS)**
 - *For example hosted email, CRM*
- **Platform-as-a-Service (PaaS)**
 - *For example Azure, Force.com*
- **Infrastructure-as-a-Service (IaaS)**
 - *For example co-location, managed hosting*
 - *Amazon (AWS), ReliaCloud*

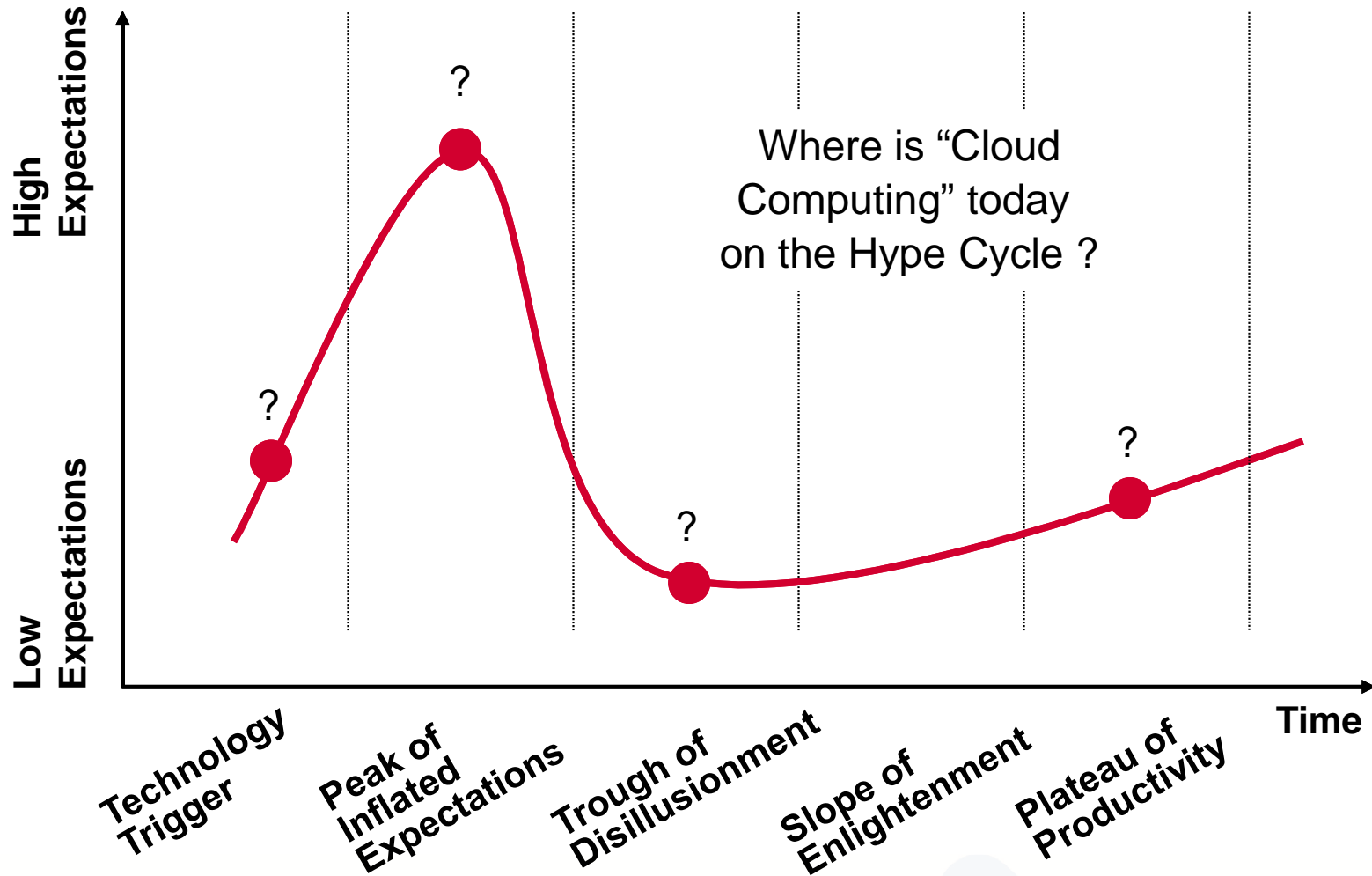


Common Characteristics

- *On-demand self-service*
- *Broad network access*
- *Resource pooling*
- *Rapid elasticity*
- *Measured Service*



Gartner's Technology Hype Cycle



Virteva observations

- **When, not if**

- The data center has left the building, and now the desktop is following

- **World is a hybrid**

- The construct will be part of your environment, blended with your internal resources – ***“Composite IT”***

- **The CIO’s new role**



The CIO's New Role:

- IT Governance
- Service Integration
- SLA Compliance
- Prime Contractor



MHTA Spring
Conference

Steven John
Chief Information Officer
H.B. Fuller

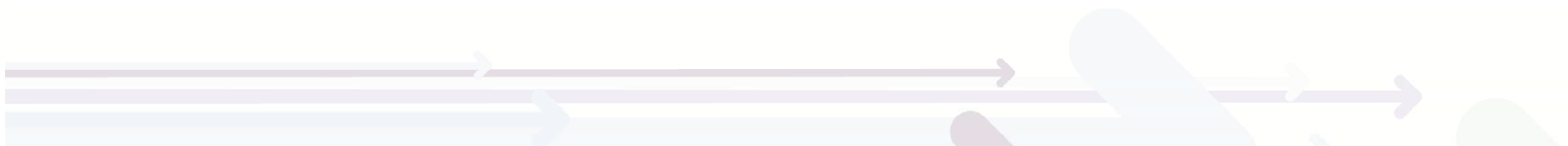
Enterprise use of the cloud



Mark Bluhm

Senior VP of Technology & Operations
Thomson Reuters

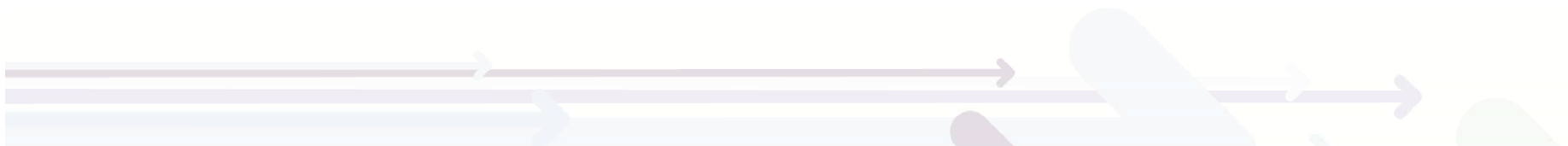
Private clouds and virtualization



Edward Ferron

Enterprise Consultant
Digineer

Software development in and for the cloud
Platform-as-a-Service (PaaS)



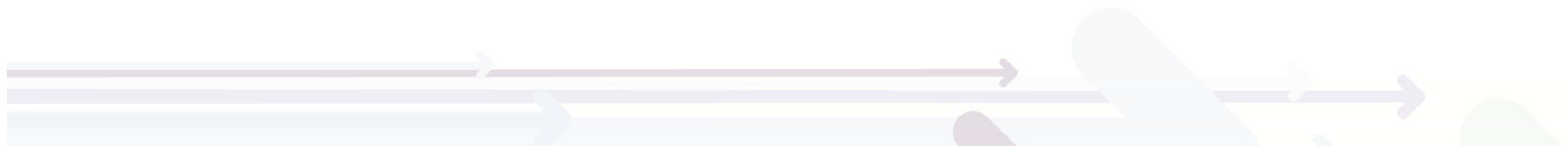
Platform as a Service (PaaS)

- **Applications**
 - ~~Database~~
 - ~~Server~~
 - ~~Hardware~~
 - ~~Storage~~
 - ~~Networking~~
 - ...
- Mature Patterns and Frameworks
 - Business Problem
 - User Experience



Development and Deployment

- Mature Patterns and Frameworks
 - Loosely coupled components are key
 - Mature scripting frameworks (AJAX, jQuery)
- REST API (Representational State Transfer)
- Cloud Applications need to be designed for Scale out and scale in scenarios
- Rich Internet Applications are not a substitute for Windows Forms

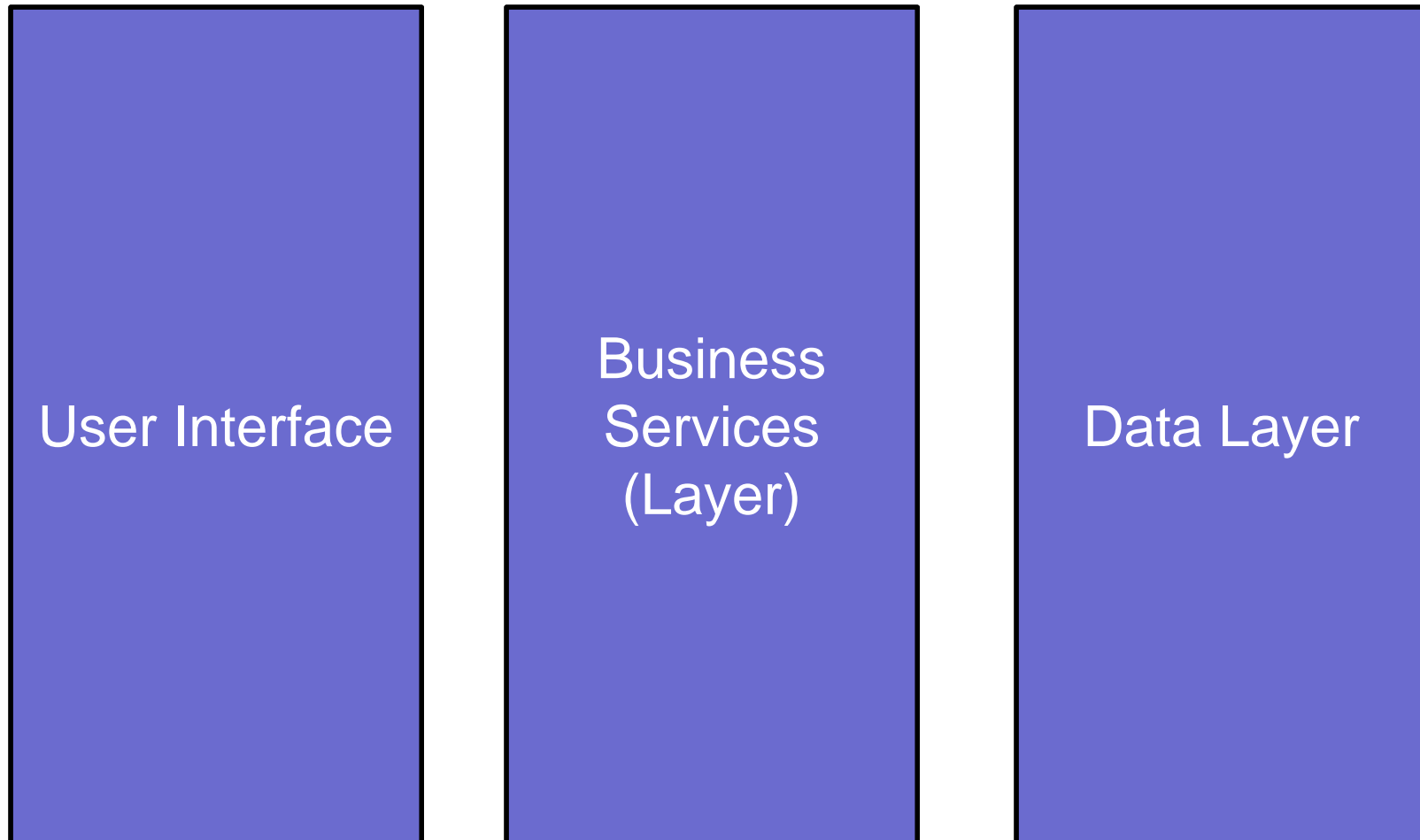


Development and Deployment

- Applications (You are still on the hook for a lot)
 - Application Security
 - Making sure keys and secrets do not get cached
 - Performance (*Capacity* <> *Performance*)
 - Managing State (or state transfer)
- Selecting the right cloud and storage strategy
 - VM for Rent
 - Well defined roles
 - Cloud Storage



Typical Logical Architecture



PC/Laptop/Mobile Device



This services can be provided on premise or in the cloud

Web Server

User Interface

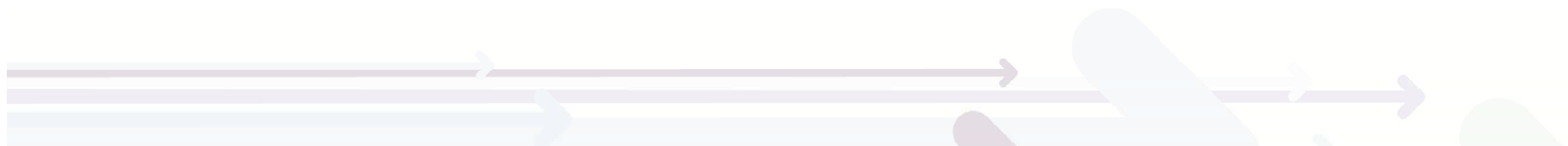
Application Server

Business Logic

Database Server

Data Layer

Note: Many if not most line of business applications do not warrant this type of hardware deployment



PC/Laptop/Mobile Device

**Web Server /
Application Server**

User
Interface

Business
Logic

Database Server

Data
Layer

*This is a more commonly
found pattern*



PC/Laptop/Mobile Device

User Interface

Application Server

Business Logic

Data Layer

Database Repository

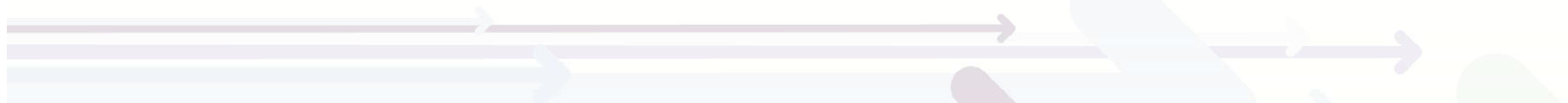
PC/Laptop/Mobile Device

User Interface

Business Logic

Data Layer

Database Repository



Q&A



Thanks you panelists!



Thank you

For a copy of this presentation, send an email to:

mhta@virteva.com

