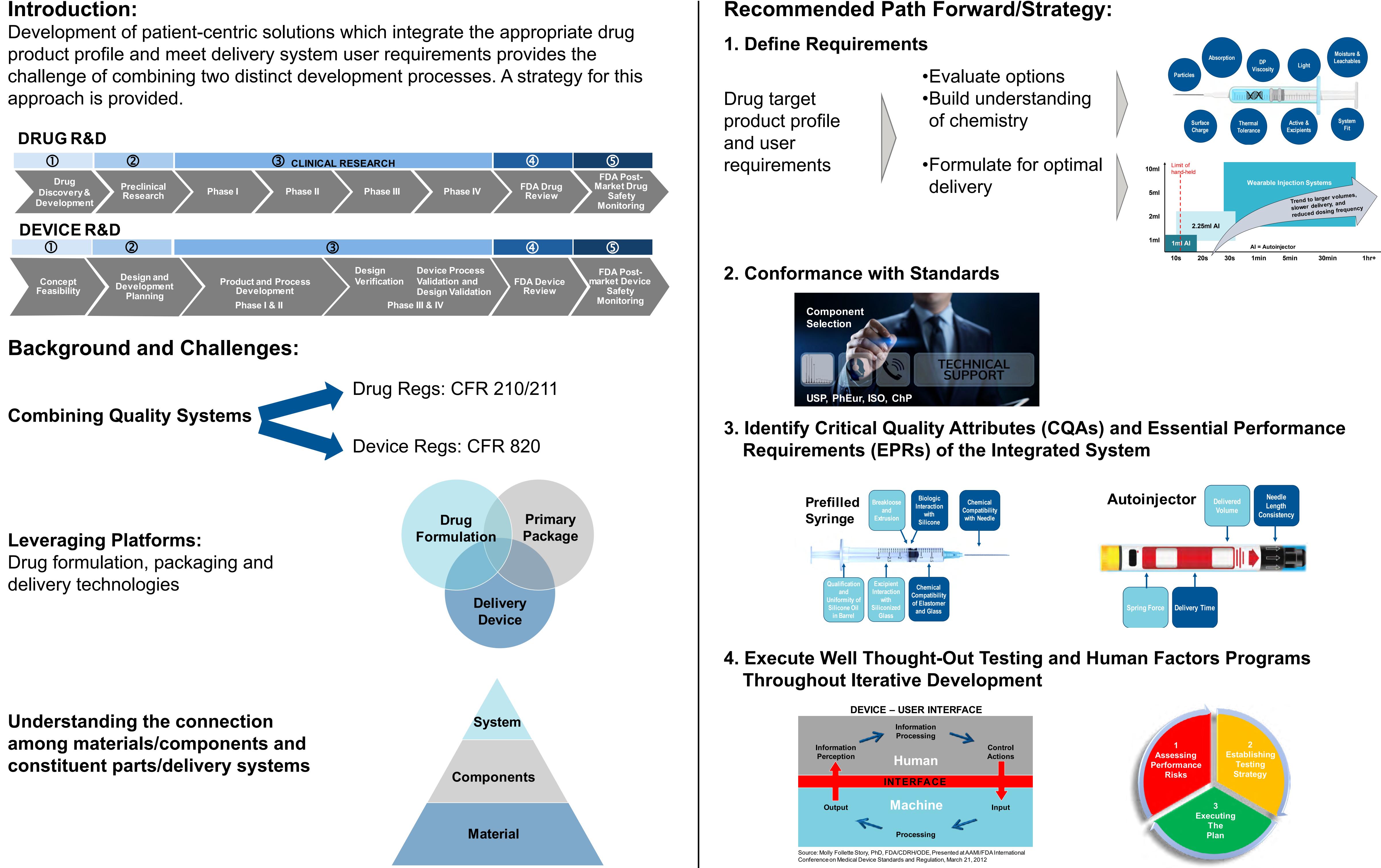
## Enablement of Patient Centric Solutions Through Integrated Drug-Device Development Fran L. DeGrazio | Vice President, Scientific Affairs & Technical Services | West Pharmaceutical Services, Inc. | Exton, PA

### Introduction:





# **Drug Product**

## Differences in:

- Spring force (speed & pressure of delivery)
- •Needle gauge
- •Needle length
- Injection volume
- •Resultant dispense time

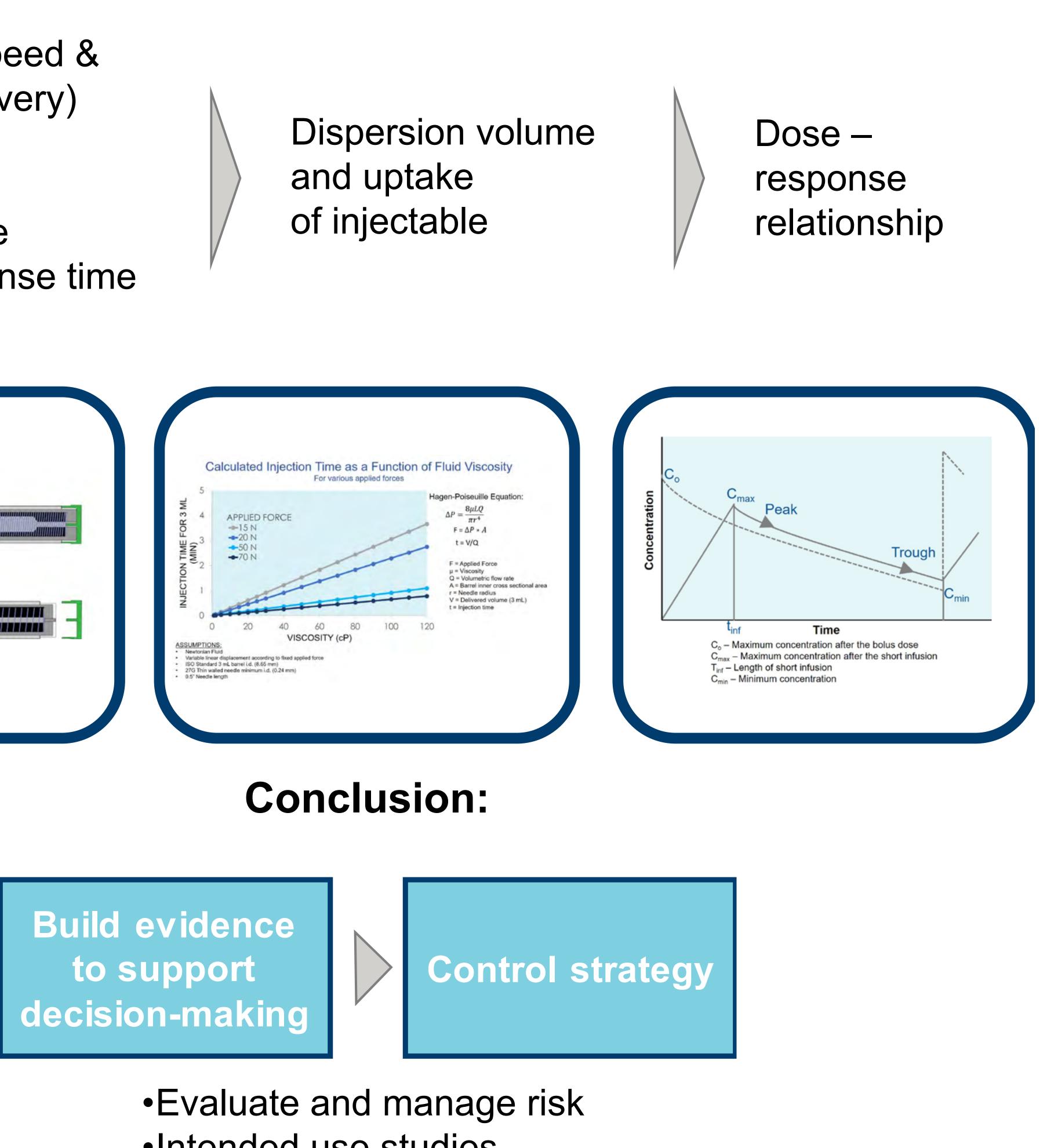
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# The Goal of Development:

Acknowledgements Diane Paskiet, West Pharmaceutical Services Susan Dounce, West Pharmaceutical Services

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## **Delivery Systems Must be Designed to Protect and Safely Administer the**



- Intended use studies
- Data and corroboration
- Lifecycle management

•Build the evidence necessary to support the decisions being made Form the foundation of knowledge for lifecycle management