

## **Industry Supply Chain Resilience**

Damien Holly Sandoz December 2020

Y Y K KY Y K KY Y K Y K Y K Y K Y K Y

Y Y K KY Y K KY Y KY KY KY KY KY KY K K KY K K KY



## Generic & Originator- One industry, two business models

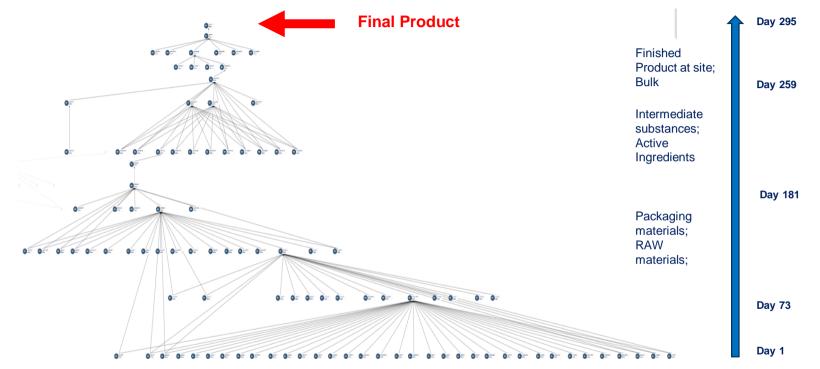
Supply Chain						
Network Supply Chain		Customer Supply Chain		Patient Supply Chain		
Supplier	Wanufacturing       Packaging	ed Conditions	First Paying Customer	The second secon	End Customer	
Business Model	Supply Chain Cost as % of price	Price				
Originator	Lower	Higher				
Generic	Higher	Lower				

Cost of Generics Supply Chain is high compared to price Impact of cost burden seen in manufacturing consolidation, market exits & shortages, primarily in generics



### Complexity of the supply chain to the Final Product

- EU Pharma Strategy encourages dialogue on supply chain



On average >350 components necessary either produced, purchased or in-house We need them all on time to make the final product

SANDOZ A Novartis Division

### Supply Risk Management

Inventory Management	Sourcing Strategy	Mfg. network and footprint
<ul> <li>Inventory and product prioritization</li> </ul>	<ul> <li>Dual sourcing</li> </ul>	<ul> <li>Preserve current strong EU footprint</li> </ul>
<ul> <li>National/regional stockpile requests</li> </ul>	<ul> <li>Supplier risk identification &amp; Audits</li> </ul>	<ul> <li>Launch sites (risk analysis &amp; strategy)</li> </ul>
<ul> <li>Customer dedicated inventories and demand management</li> </ul>	<ul> <li>Product prioritization</li> </ul>	<ul> <li>Network Analysis &amp; Future sites</li> </ul>

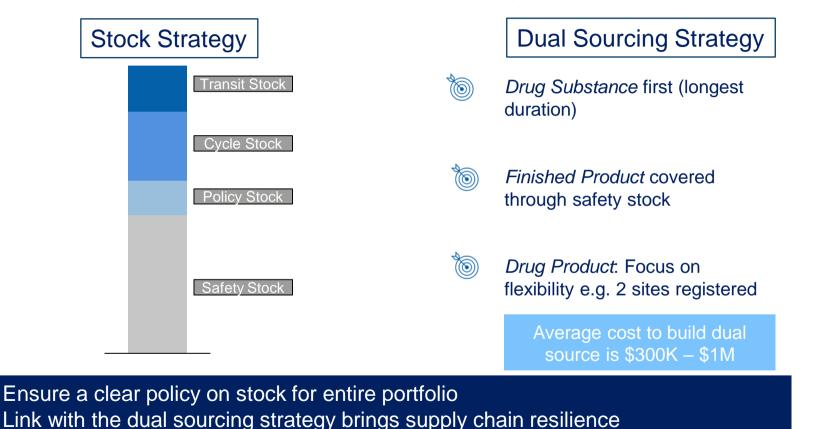
Governance / Training / Best Practice Sharing / Empowerment

Supply Risk Management process assesses whole supply chain network Identifies risks & implements counter-measures across the portfolio



#### Stock and Dual Sourcing Strategy

- issues and costs discussed with commission, member states and industry



SANDOZ A Novartis

#### The Future



#### Further improve supply by continuing further

- active dual sourcing
- inventory policies
- operational excellence programs to further improve site reliability
- re-inforce end to end supply network management



#### «European Footprint» can reduce dependency on other territories

- only solution if combined with a shift in focus from industry and governments
- could have the opposite impact driving to even more shortages

# Government & Industry Focus



Where a change in government & industry focus would help:

- data transparency for coordination/collaboration across industry
- reward manufacturers for investing in supply resilience
- promote sustainable contracts and pricing
- Increase regulatory flexibility

