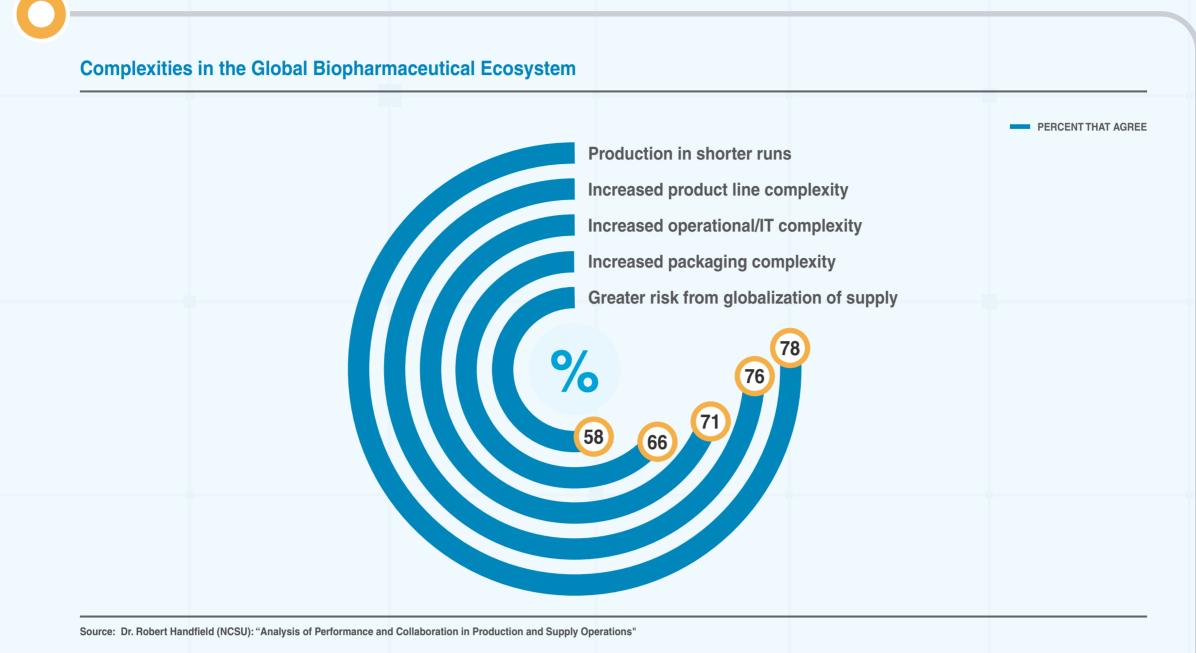




COLLABORATION CAPABILITY IS A TOP PRIORITY FOR PHARMACEUTICAL SUPPLY CHAINS

Data-driven, action-oriented collaboration with suppliers and contract manufacturers is now imperative to navigate the complexities of today's operating environment.



Extent of Data Sharing in Manufacturing and Supply Chain

PERCENT OF PARTNERS WITH WHOM INFORMATION IS SHARED **Production Batch record Production** Material **Advance** status review status forecasts receipt ship notices

API/RM supply

purchase orders

Source: Dr. Robert Handfield (NCSU): "Analysis of Performance and Collaboration in Production and Supply Operations"

Inventory

Incident and

change control

quality

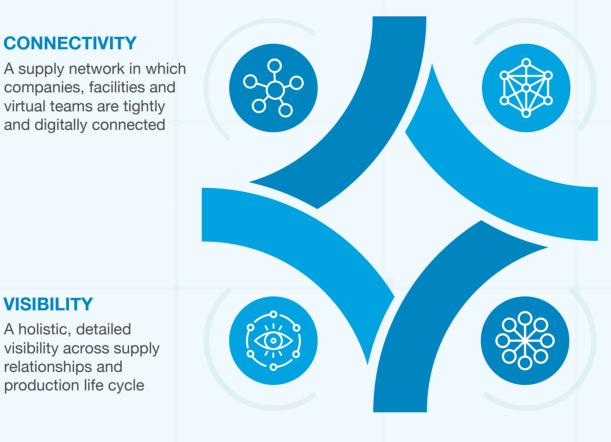
Top Gaps in Information Sharing in Pharma Supply Chains



Note: Smaller gaps exist in Advance Shipping Notices, Supply POs, Invoice Tracking and Production POs.

Source: Dr. Robert Handfield (NCSU): "Analysis of Performance and Collaboration in Production and Supply Operations"

Key Elements to Drive Supply Chain Performance



DATA

Production

purchase orders

Invoice

tracking

Access to the latest, most accurate production and supply chain data

VISIBILITY

A holistic, detailed visibility across supply relationships and

COLLABORATION

Create an operational environment that facilitates multi-enterprise collaboration across shared supply chain processes

Source: Dr. Robert Handfield (NCSU): "Analysis of Performance and Collaboration in Production and Supply Operations": GEP Analysis

The GEP Collaboration Suite

