

Technology Enablers for Product Development through Commercialization: Proven Solutions

BSMA US



INTRODUCTIONS



Jan Pieter Kappelle

VP, STRATEGY

- 30+ years industry experience
- 15 years leading clinical trial supplies departments in global bio/pharma
- Serves as European Membership Officer and Master of Ceremony for Global Clinical Supplies Group (GCSG)



Current Forecasting Landscape:



WORLD'S FIRST FULLY INTEGRATED RTSM & FORECASTING ENGINE

- Challenge: Most forecasting tools account for current demand of existing patients, but not unpredictable or partially known demand
- Solution: Fully integrated RTSM/supply forecasting engine
 - Automatically calculates unpredictable demand daily
 - System reacts to patients in screening and accounts for patients that may have upcoming titration & patients that don't have a defined dose

	CHALLENGES	SOLUTIONS
BUFFER	Buffer levels (trigger) are static and need to be defined manually	Buffer levels are automatically calculated – for sites and depots – and dynamically adapt to demand
FEEDBACK	No feedback from the system or scenario planning capabilities – black box	Scenario planning with dials and instant feedback. Actual values are only committed when assessed.
RE-SUPPLY	Little help with depot re-supply which is often done manually or in separate systems	Automatic, dynamic re-supply is extended to depot level

Industry Need – Improved Forecasting Solution



Excel - The Industry Standard

X Slow - Manual process

Easy-to-use, known platform

X Not automated, difficult to scale

X Risk: Human error

X Labor intensive



Available Commercial Tools

X Slow - Input changes and processing time

X Complex – Difficult to verify outcome based on inputs

X Not automated – Lack of integration, uncertainty applied to study duration

X Risk: Lack of understanding, blindly trust results and expensive

Reproducibility at study level



Ideal Clinical Demand & Supply Planning Tool

✓ Fast - Dynamically adjust forecast in moments

✓ Easy-to-use, intuitive

✓ Fully automated, adapts to any level of input

 Opportunity: Powerful visualizations, scenario comparisons and real-time reporting

 Ability to aggregate to compound and network level



Innovation: 4C™ D&SP



D&SP INNOVATION

Natural Language
Processing (NLP)
Revolutionizes Demand
& Supply Planning
(D&SP)



Speed



Simplicity



Control over Supply Decisions



Dynamic Forecasting based on Study Lifecycle



Accuracy & Visibility

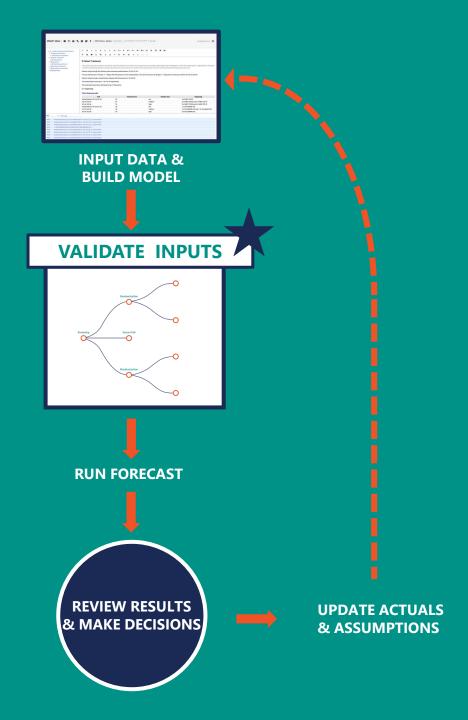


SPEED – 4C™ USER EXPERIENCE

Simple Workflow – 5 Easy Steps



- o Input data based on 4 key variables, within template
- Visually verify the inputs give the expected output
- Click "Run Forecast"
- Review results and enable key decisions
- Iterative process Refine, rebuild, model and approve





INNOVATIVE DEMAND & SUPPLY PLANNING (D&SP)

The Results?

Full
Transparency
of How Inputs
Correlate to
Outputs

Save Inputs elate to Time

Remove Labor Intensive Manual Processes

Eliminate Need for Analytical Expertise

Build Supply Model <4 hrs for Complex Studies Update
Existing
Models <15
Minutes

Reduce Risk of Poor Supply Decisions



THANK YOU

BSMA US 2019

