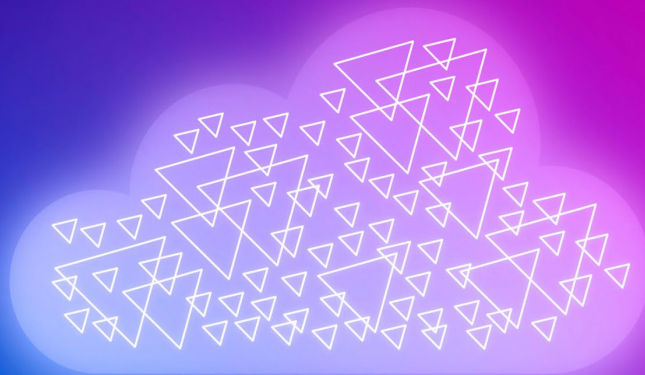


Portfolio
SANITY



Assumption based forecasting in SANITY

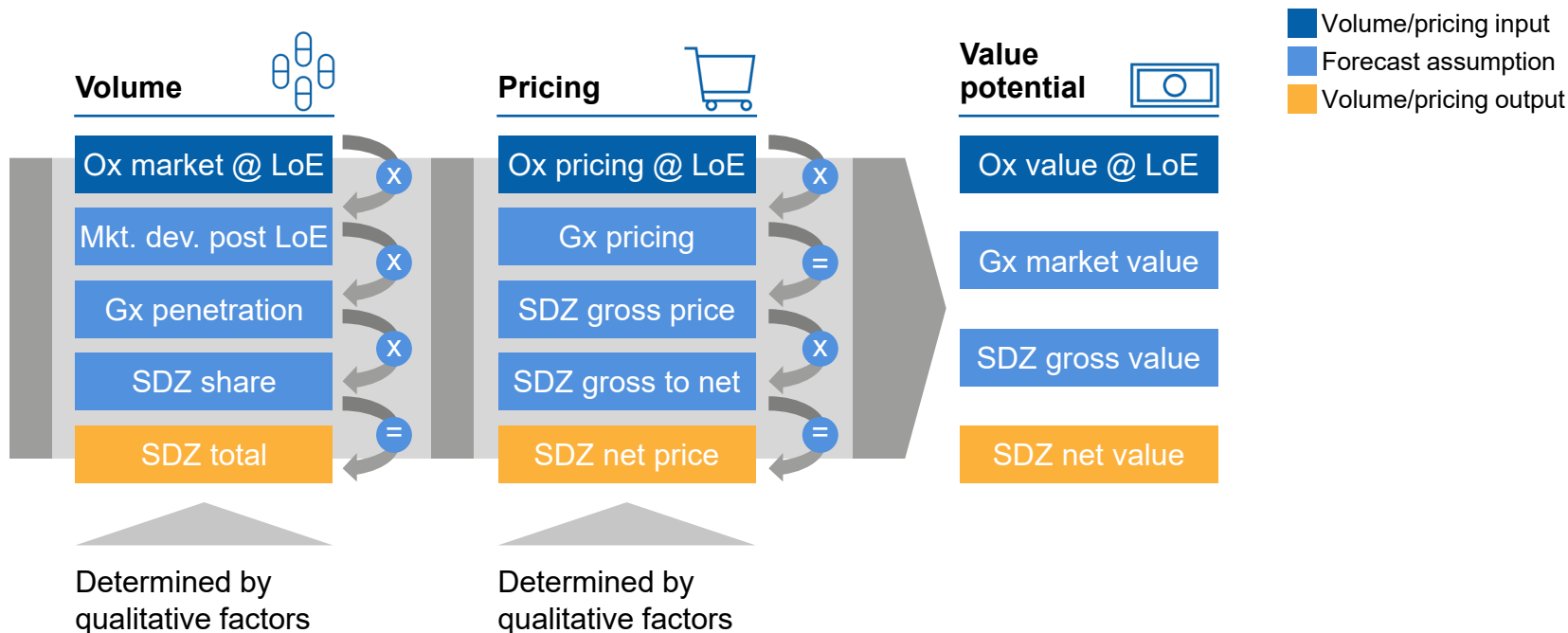
General introduction into methodology

October, 2022

General Gx forecasting methodology remains, but gets enhance by various elements

1. **Assumption based Gx forecasting:** Established methodology to forecast volume and value remains
2. **Recording of assumptions:** All underlying assumptions get recorded with the forecast and changes over time become transparent
3. **Rolling 12-months assumptions:** Rolling concept allows use of standard assumptions independent of launch date and simplifies forecast updates
4. **Calendar year specific forecasting with 12-month rolling conversion:** Entering forecasts calendar year specific still possible. Automatic conversion of entered assumptions into 12-months rolling ones enables comparison and simplifies updates
5. **Loading of Excel generated forecasts:** Apart from entering forecast data directly into SANITY, the option to use specific Excel models with downloading and uploading data remains – data loading format has to be met

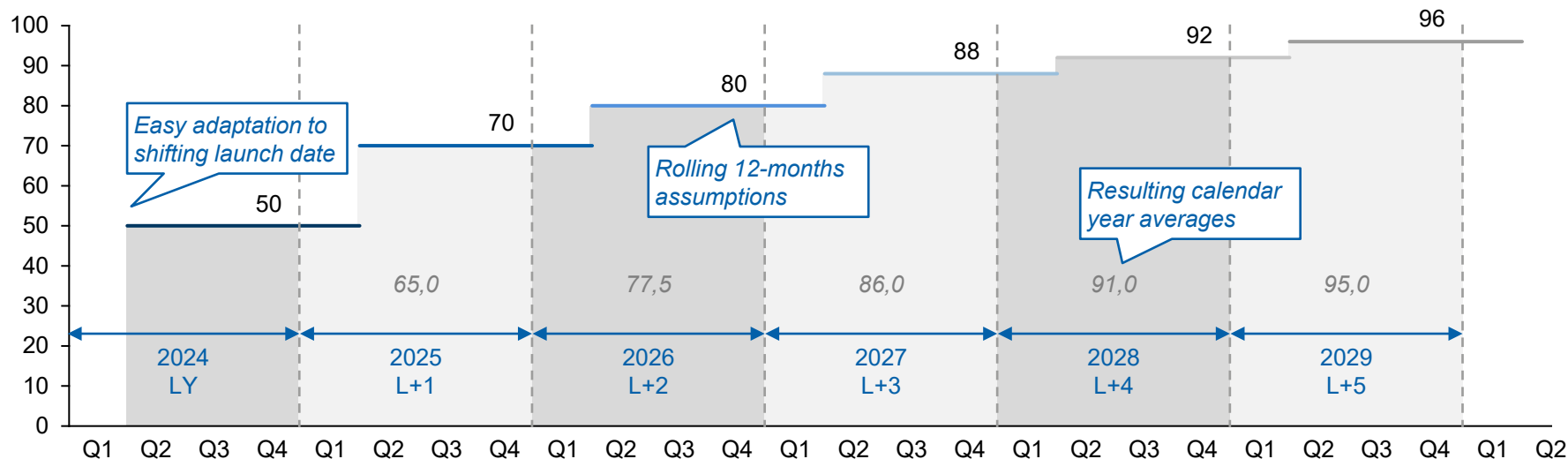
Volume and pricing forecasting follows standardized logic – no change due to switch from SPIRIT to SANITY



Entering assumptions as 12-months rolling simplifies forecast creation and update

Example: Gx penetration (%), launch date: April 1, 2024

Data entry per calendar year also possible



Leading forecasting methodology is 12-months rolling, but legacy option to load calendar year forecasts kept

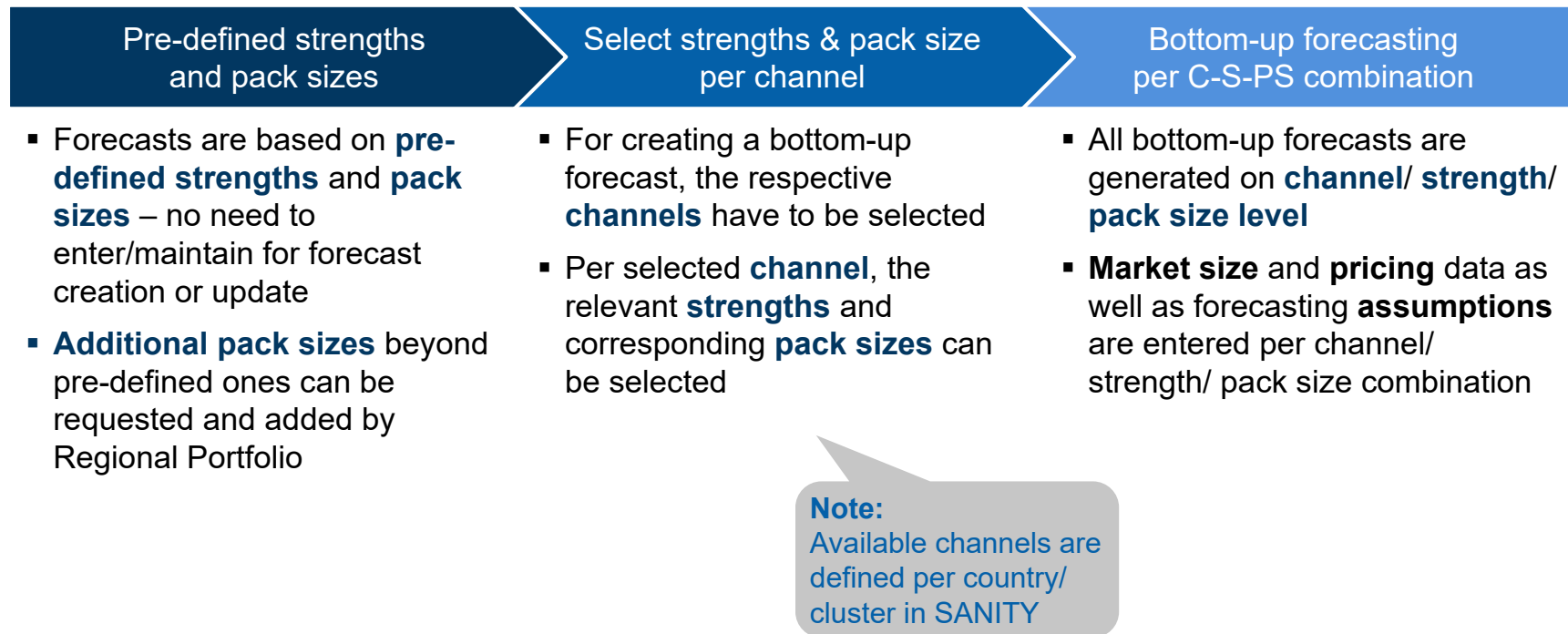
Rolling, assumption-based forecasting

- Library of aligned rolling 12-month assumptions per TA or Channel enables efficient forecast creation
- Rolling assumptions are independent of launch date, making “one-click” changes possible
- Tracking of rolling assumptions allows analytics of changes over time – independent of launch date (changes)
- Many countries already apply rolling forecasting logic in local templates → less translation effort required

Calendar year specific forecasting

- Easy import of FC data available in calendar years, e.g., from SPIRIT
- Solution for cases where FC input (and assumptions) are calendar specific
- Allows continuation of current way of working and/or use of calendar year specific templates
- System based conversion of entered calendar year information into rolling assumptions simplifies transition

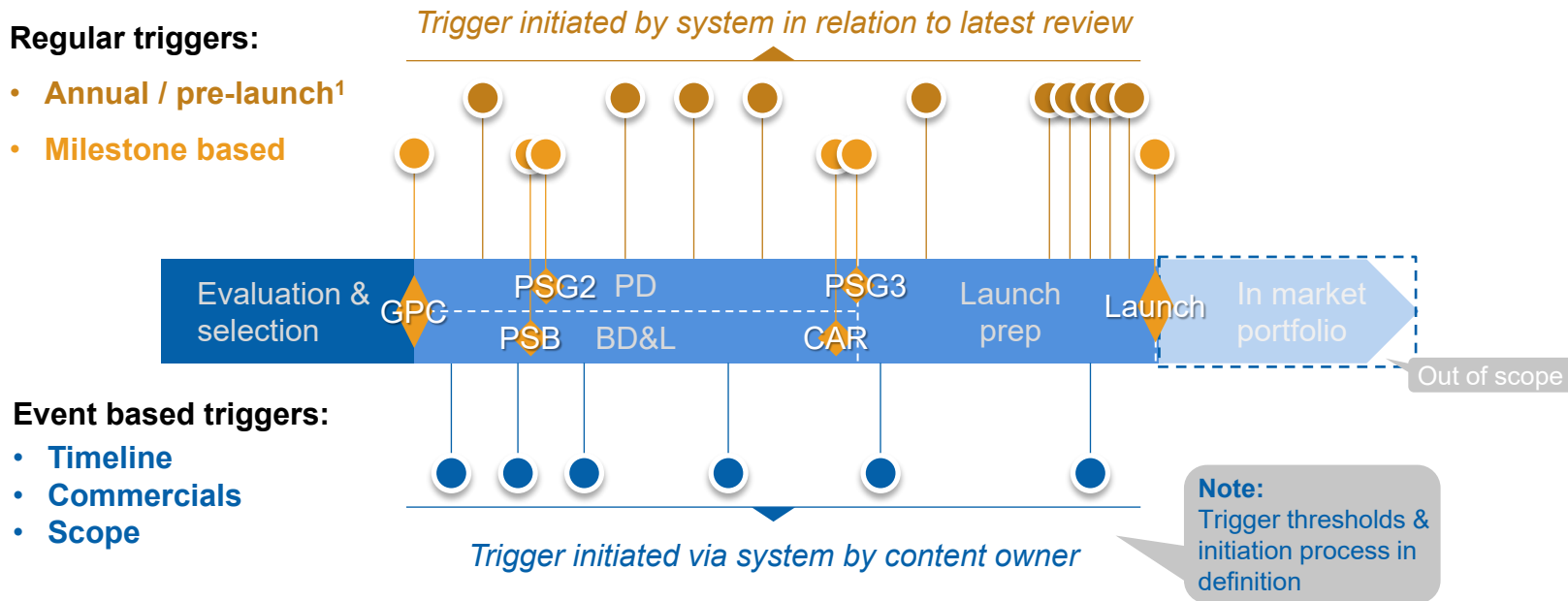
Forecasting on pre-defined pack sizes leads to less forecasting effort and higher accuracy



Bottom-up forecasting process steps remain as in SPIRIT

Forecast request	BD, PM, LM or Regional/ Global Pf	<ul style="list-style-type: none"> ➤ Check/ adjust strength and pack size settings ➤ Request countries in scope to update forecasts
Request forward to countries	Regional Portfolio	<ul style="list-style-type: none"> ➤ Approve request and forward it to countries, or reject ➤ Add further countries to forecast request
Forecast creation/ update	Country Portfolio	<ul style="list-style-type: none"> ➤ Manage Market assumptions for country ➤ Create/ update forecasts on Channel/ Strength/ Pack size level using market assumptions
Forecast release	Regional Portfolio	<ul style="list-style-type: none"> ➤ Release forecasts to pipeline
Request closure	Forecast requestor, All SANDOZ	<ul style="list-style-type: none"> ➤ See updated pipeline in SANITY

Regular or event-based triggers shall initiate a re-assessment of forecasts in the system



¹ Annual trigger: minimum of 1 annual review required in alignment with operational calendar, e.g., pipeline review, strategic review financials;
pre-launch trigger: regular trigger in line with current process that is in place for launch preparation