

4.2 Specific topics on aggregation and baselines

DR NC monitoring: subtopics for aggregation models

2025-2026

- Focus topic 1:
**Aggregation
models**

Best practices?

Aggregation models: main features	Financial transfer and financial compensation	Baselining methods	Allocated volume
• How corrections are implemented in each model per product? • Considerations when setting up aggregation models with multiple BRPs per metering point.	• Financial transfer: • Price: calculation • Settlement: process • Financial compensation: • Costs and benefits (overcompensation?)	• System user-specific baselining methods per product • Methodology • Difficulties to meet baseline requirements • Validation, precision	• Measurements (incl. DMDs) + Cross-cutting topics • Rebound effects • ...

Main features of aggregation models

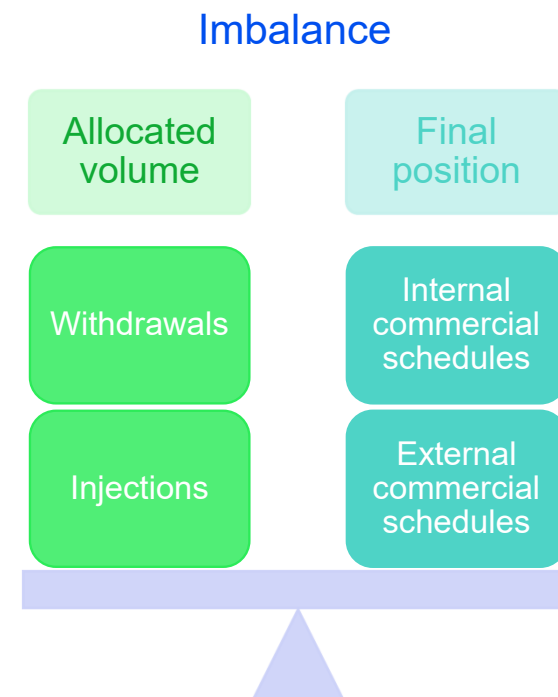
Balance responsibility

Article 5(1) of the Electricity Regulation:

*“**All market participants** shall be responsible for the **imbalances** they cause in the system (‘balance responsibility’). To that end, market participants shall either **be balance responsible parties** or shall **contractually delegate their responsibility to a balance responsible party of their choice.**”*



$$\text{imbalance} = \text{allocated volume} - \text{final position} \pm \text{imbalance adjustment}$$



imbalance adjustment: energy activated by the system operators for **balancing**, **local services**, **other purposes**

Aggregation models and balance responsibility



Market participants
engaged in **aggregation**

Aggregation models

Split responsibility

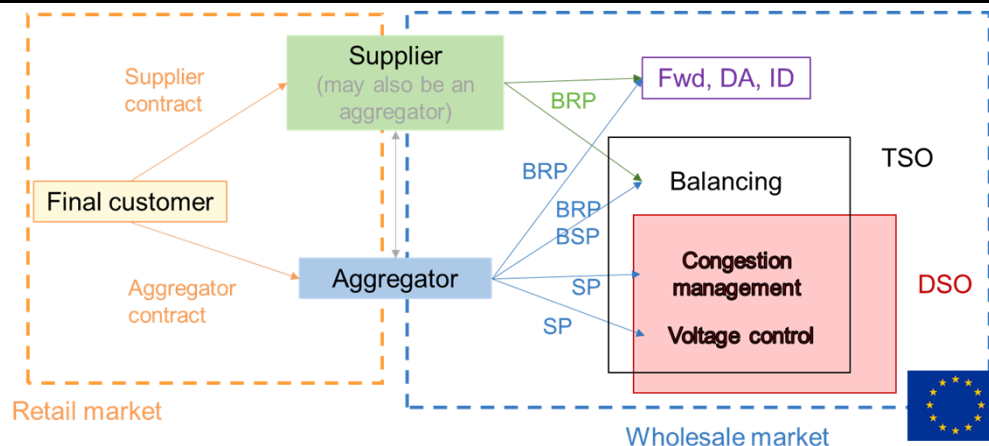
Broker/contractual

Central settlement

Corrected

Uncorrected

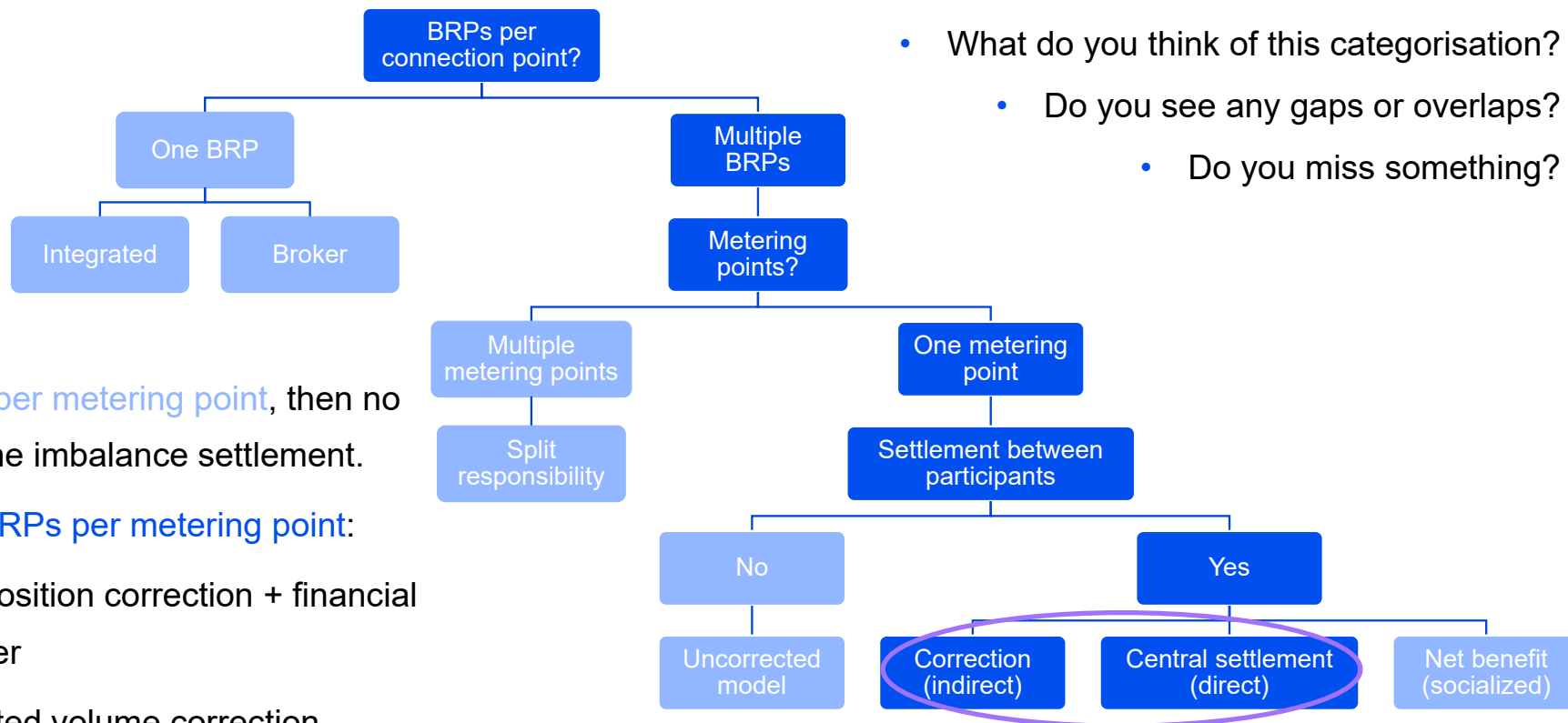
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$$\text{imbalance} = \text{allocated volume} - \text{final position} \pm \text{imbalance adjustment}$$



Aggregation models definition



- What do you think of this categorisation?
- Do you see any gaps or overlaps?
- Do you miss something?

1. If **one BRP per metering point**, then no change in the imbalance settlement.
2. If **multiple BRPs per metering point**:
 - i. final position correction + financial transfer
 - ii. allocated volume correction
 - iii. no correction

Focus on these two to better capture the relation between market participants.

Aggregation models: rebound effects

- **Rebound effects** is one of the topics that we have not addressed deeply so far, but we consider it important, so we would like to better understand the issues related to that.
- According to the definition in ACER Recommendation for the DR NC: *“rebound effect’ means the alteration of injection or withdrawal of electricity by a SPU or SPG in the opposite direction to the activation for the provision of a local or balancing service, which takes place before or after the activation period;”*
- Do you see any **particular issues** that we should cover in the report? E.g. specific aggregation models or window for identifying rebound effects?

Financial transfer: price and settlement

Financial transfer overview



Mapping

- Most common **calculation methods** per market/product and aggregation model
- Specific measures when **multiple calculation methods**
- **Price-formula design**: main purpose, parameters



Approval of the calculation method

- Evaluation
- **National context** in the evaluation process
- **Stakeholders'** involvement

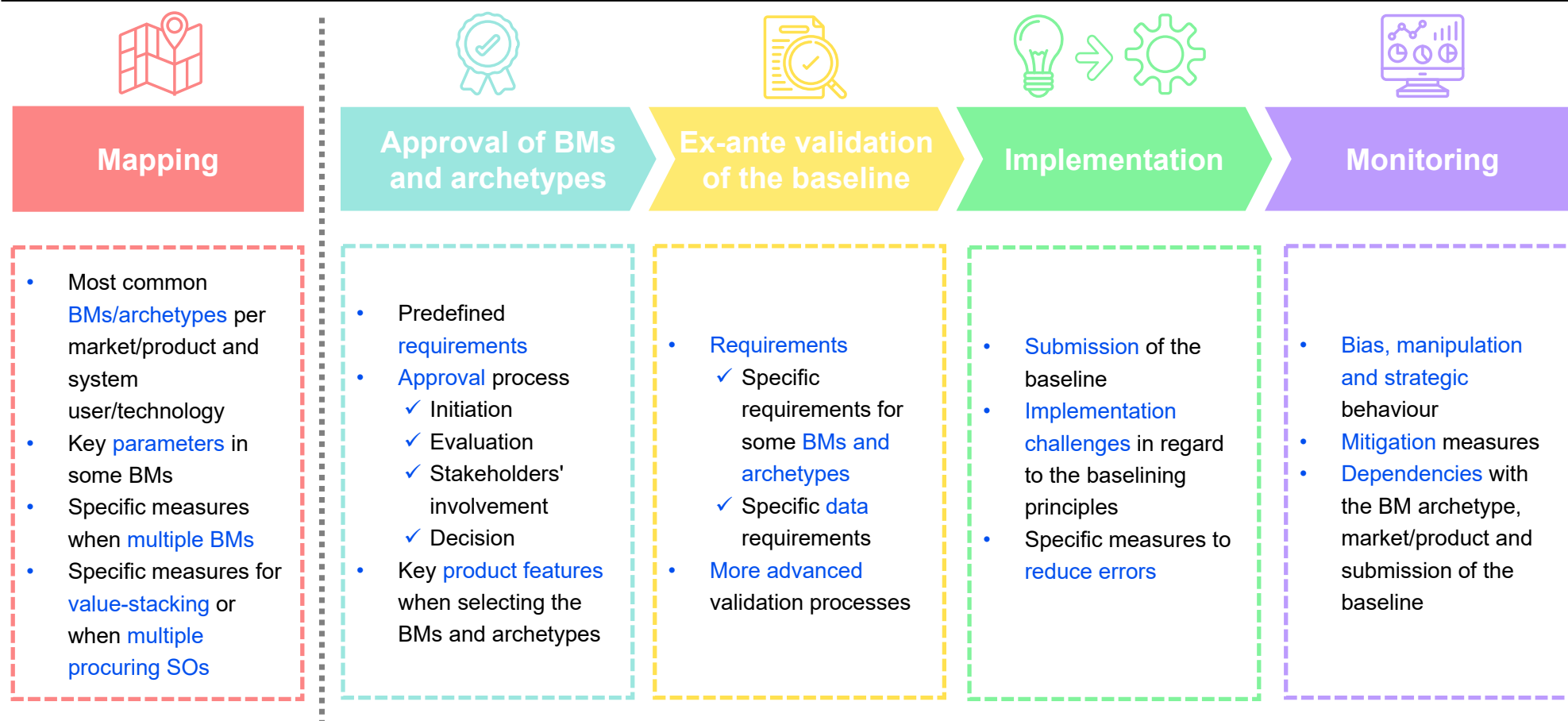


Settlement

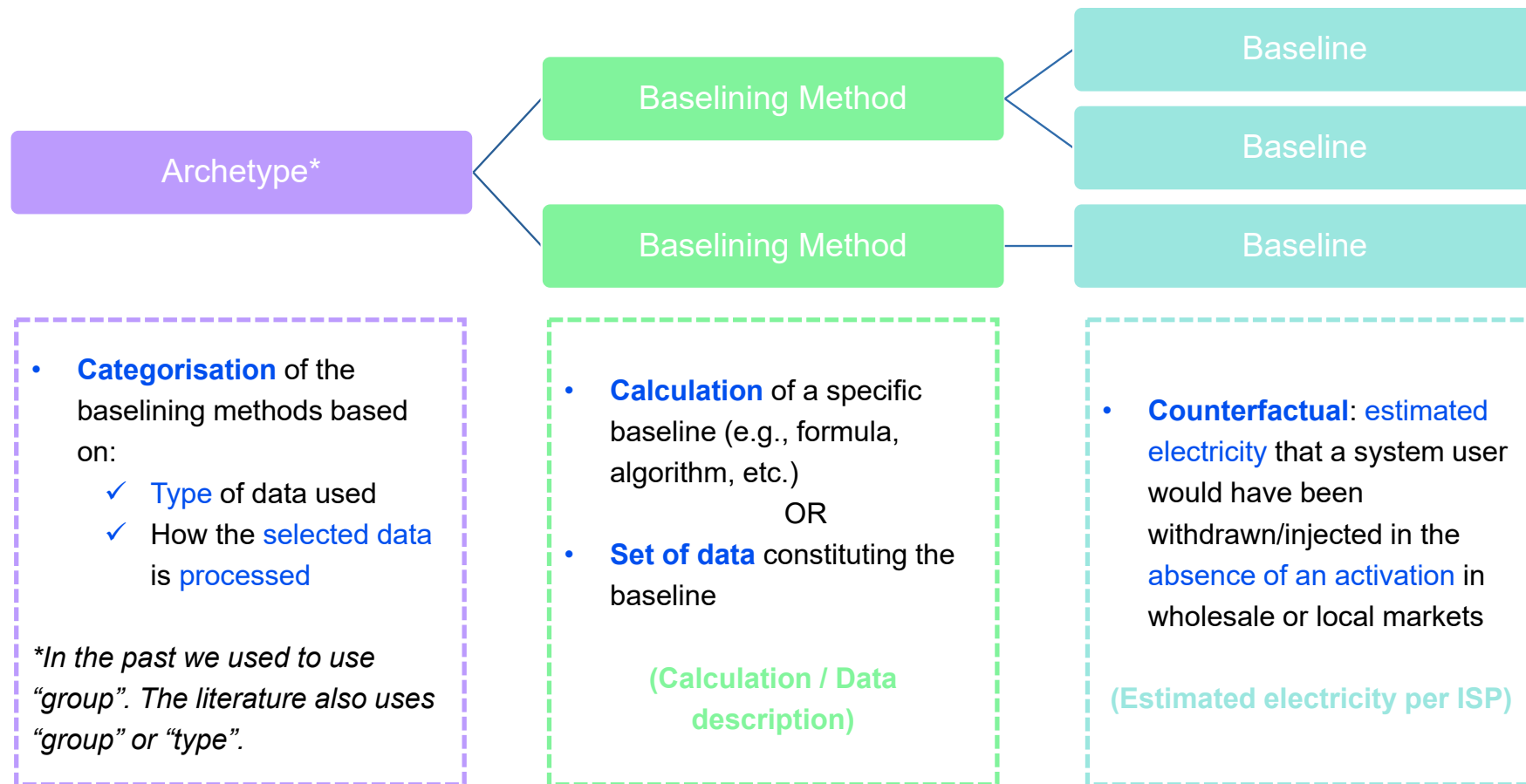
- **Who calculates** the financial transfer price
- **Parties'** involvement

Baselining methods

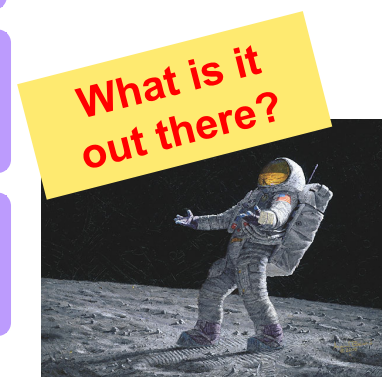
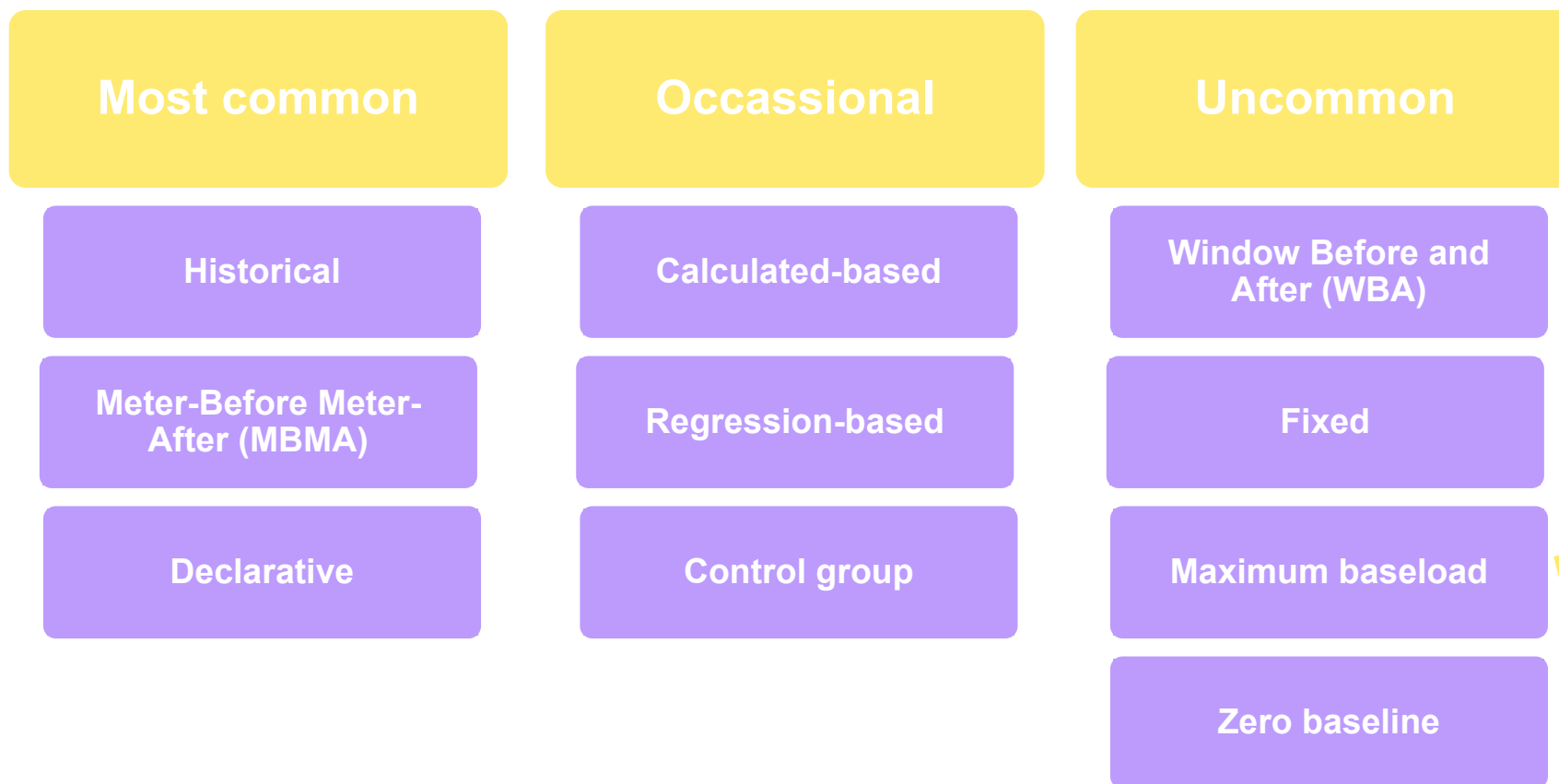
Draft Baseline Overview



Speaking the same language...



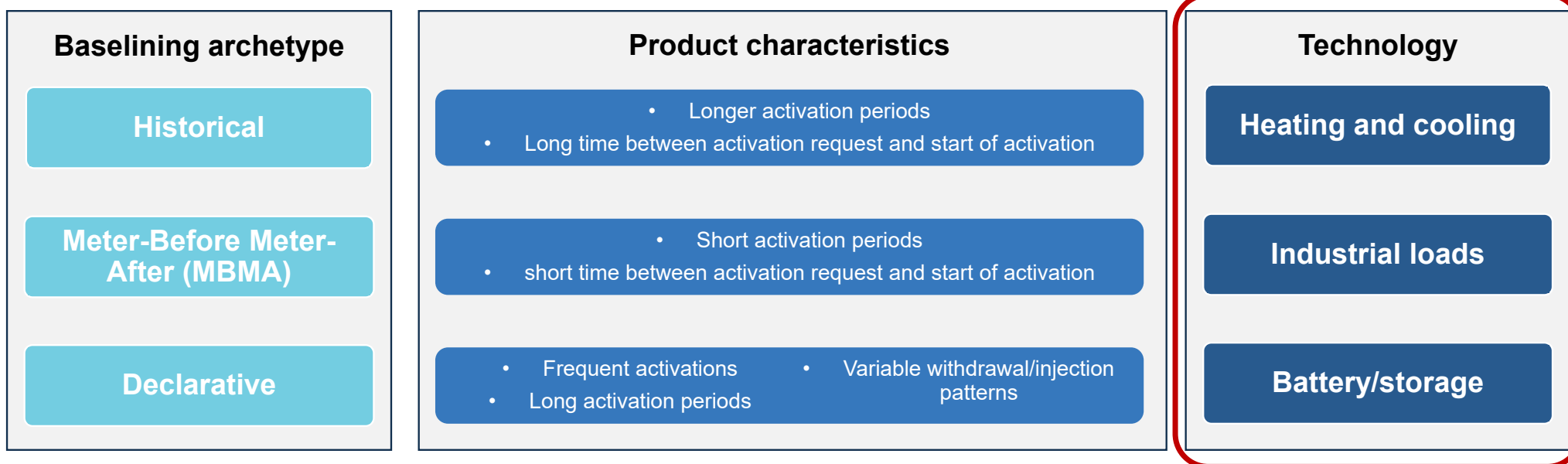
Overview of archetypes



- Meter-before, meter-after (MBMA) or Window before
- Historical, Consumption profile or Rolling without “same-day adjustment”
- Historical, Consumption profile or Rolling with “same-day adjustment”
- Historical Regression-based
- Declarative or Nomination
- Calculated-based or Non-meter data
- Control group or Peer group
- Fixed
- Window before and after (WBA)
- Maximum baseload, “Drop to” approach or Alternative approach
- Zero baseline or Generation approach

Baselining archetypes and different technologies

Is the baseline only applicable to some types of system-users or technologies? Which ones?



What would be a good way to distinguish and categorise different technologies?

Thank you for your attention



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