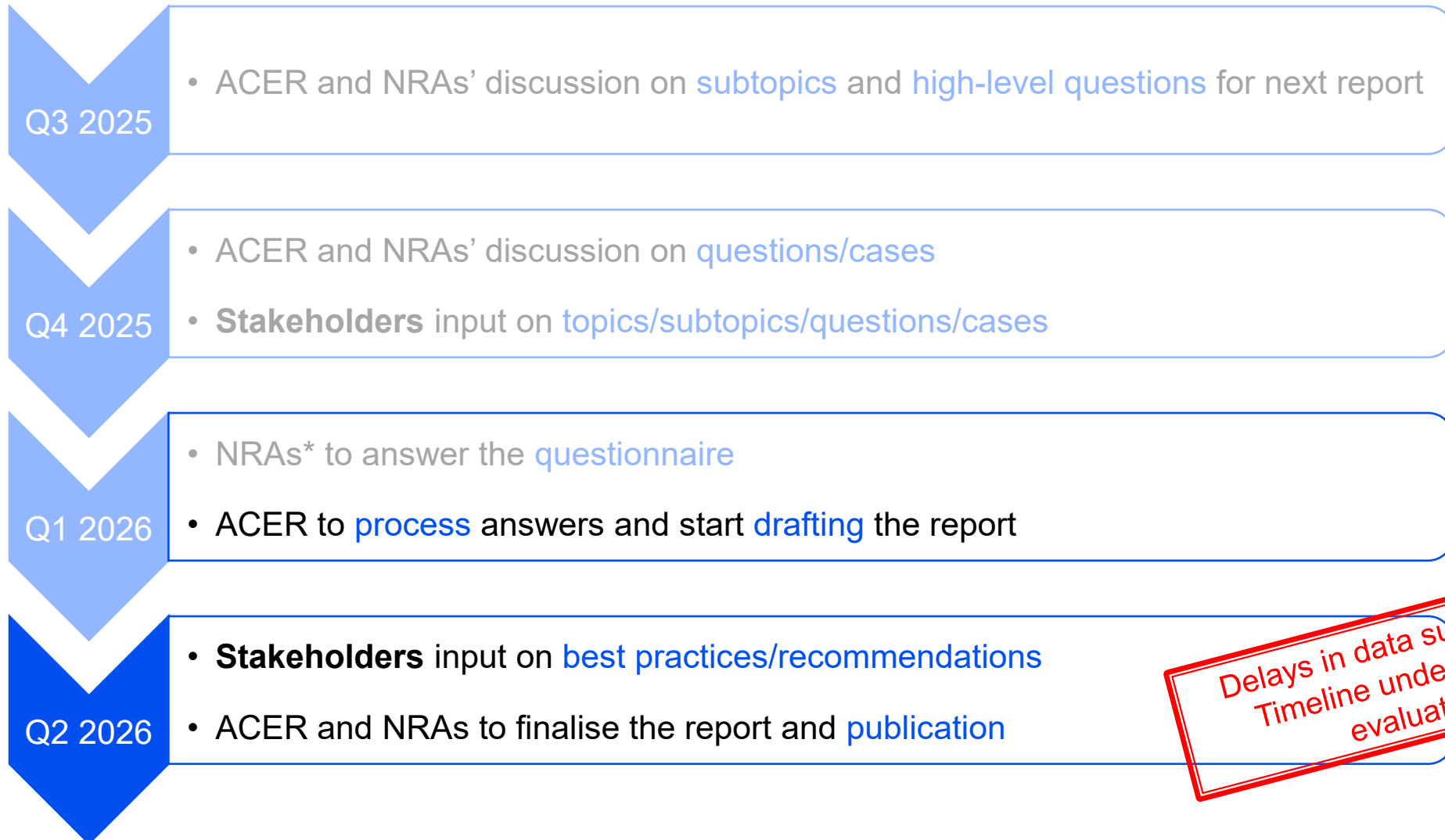


- Introduction and general clarifications
- Part I: Aggregation models
 - Scope
 - Initial clarifications on aggregation models
 - Some preliminary results

Introduction and general clarifications

Timeline for the focus report

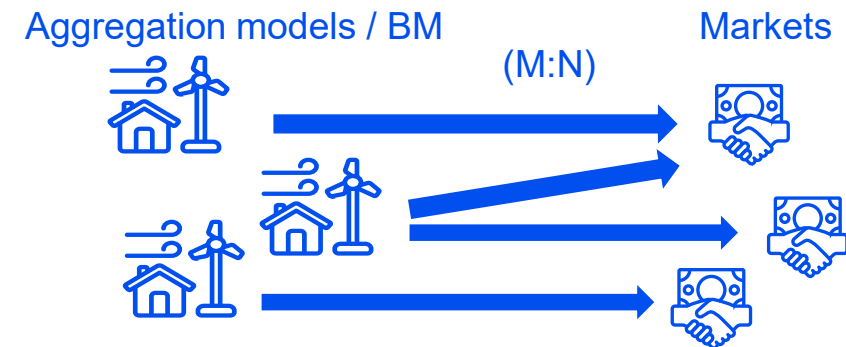


Delays in data submission.
Timeline under internal
evaluation

Mapping to markets and implementation status: clarifications

Market/service	Product	Other
Day ahead	NAP	
Intraday		
Balancing	FCR	NAP
	aFRR	
	mFRR	
	other	specify
TSO congestion management	specify	
DSO congestion management	specify	

An aggregation model or baselining method (BM) maybe applicable to more than one markets, so the number of aggregation models and BM implementations is more than the number of aggregation models and BM implemented.



Implementation status

- Implemented/**business as usual approach**: fully implemented and being applied as normal business*.
 - Implemented/trial stage (**pilot project**): implemented but only in a trial stage or a pilot project.
 - **Planned or under discussion/consideration**: not implemented yet, but they are expected to be implemented (stage of regulatory approval or mature discussions).

* even if some elements – like rebound effects for example – have not been decided/implemented yet

DRESG discussion:

- **Incentives:** not only to monitor the implementation of the models, but also assess their functioning in the market, and in particular the financial transfer/compensation impact (balance between creating incentives for more to join while ensuring non distortive effects).
- **DMDs:** how DMDs are being used? Do they have specific requirements? What is the difference with submeters.
- **Data exchange** standardisation (at least for data needed for the aggregation models and baselining).

Submitted afterwards:

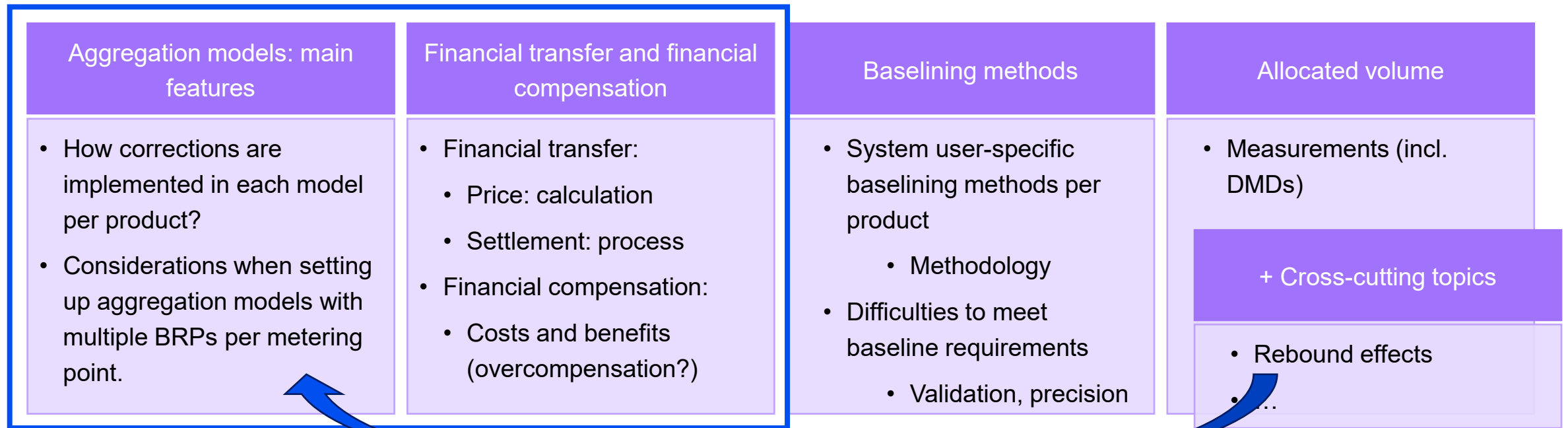
- **Terms:** Confusion with used terminology, both with submeters and with naming of aggregation models.
- **Aggregation models:** For each model three relevant questions: does it incentivises all efficient responses? does it accidentally incentivise any inefficient responses? is customer's supplier largely neutral?
- **Baselining:** Cautious with accuracy and no need to have a limited set of possible baselining methods; if it works well, we keep it.

2025-2026

- Focus topic 1:
Aggregation models

Changes

Merged



Added

4.1 Aggregation models – preliminary results

DRESG

22 April 20256

Scope

Draft scope on aggregation models



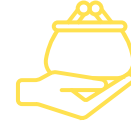
Mapping

- Aggregation models per **market/product** and **system user/technology**
- **Agreements/Contracts** supplier/aggregator
- **Corrections**



Financial transfer

- **Calculation** methods
- **Approval** process
- **Settlement**



Financial compensation

- **Costs/benefits** covered
- **Calculation** methods
- Roles to **define/calculate/approve** financial compensation



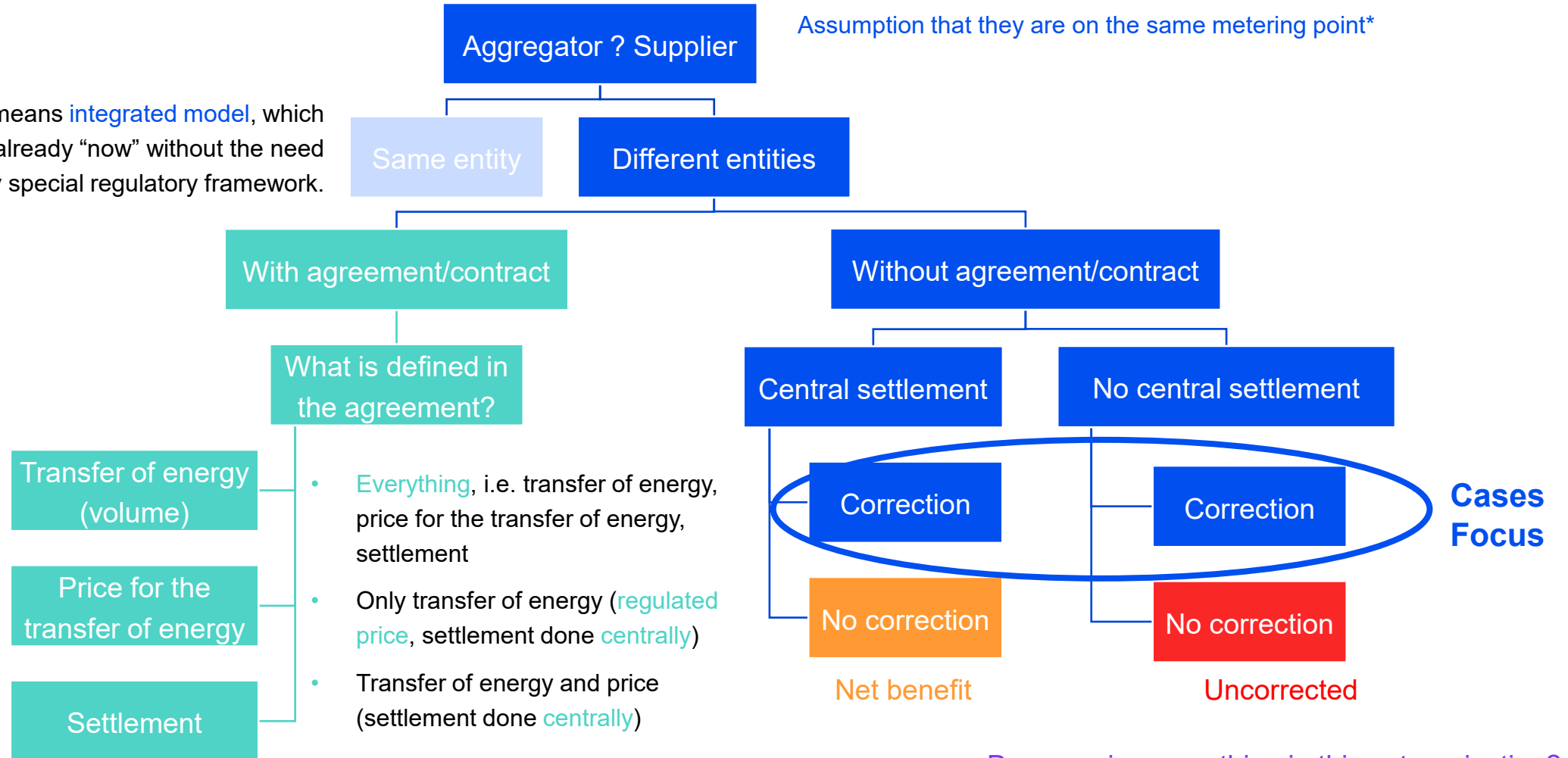
Focus on aggregation models with multiple BRPs/metering point

- **Set-up** considerations
- **Balance responsibility**
- **Penalties** if imbalances
- **Rebound** effects

Initial clarifications on aggregation models

A different categorisation of the aggregation models



Same entity means *integrated model*, which is applicable already “now” without the need of any special regulatory framework.

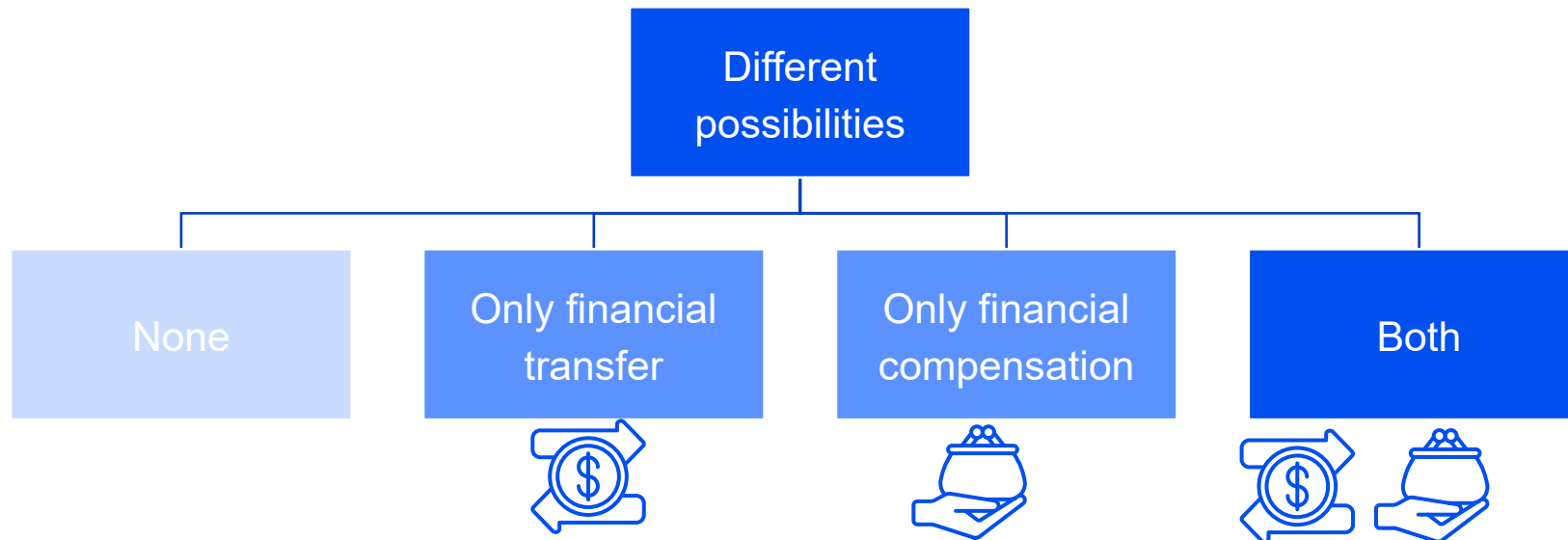


Do you miss something in this categorisation?

*following the discussion with the SOs this can either be a smart meter or a sub-meter

How we distinguish between the two*:

- **Financial transfer:** this element covers **any financial settlement done between two parties** (i.e. the supplier and the aggregator or their respective BRPs) following a **transfer of energy** (correction in the imbalance settlement) between these parties, linked to the **costs** related to the transfer of energy. 
- **Financial compensation:** this element covers **any financial settlement** – done in the context of the implementation of the aggregation model – that is **not already covered** by the financial transfer. 



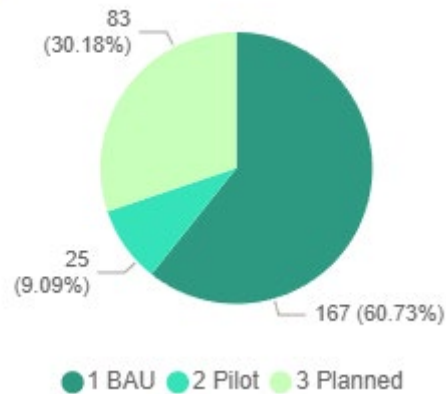
* The aim is to clarify the different aspects of the implementation, not to define terms legally.

Some preliminary results

- In the following slides we present **preliminary** results, based on raw data, and they **need to be** further **confirmed** with the NRAs/SOs, including potential clarifications for their interpretation.
- They are only intended for **discussion** in DRESG, with the aim to get some **early feedback** from the stakeholders.
- They should **not be copied, reproduced** or **used** outside this context.

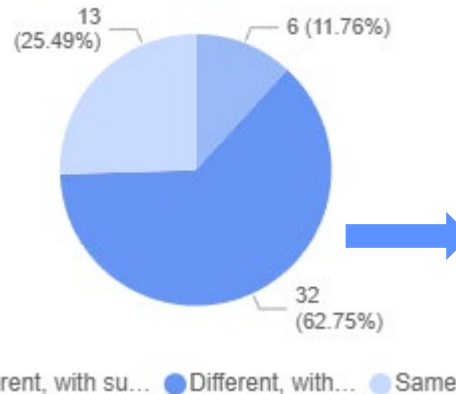
Aggregation models: overview

Implementation status

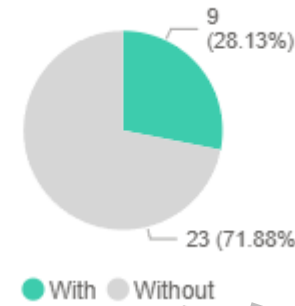


- 23 countries have responded.
- 20 countries have at least one aggregation model implemented as business as usual (BAU).
- 8 countries have at least one pilot aggregation model.

Aggregator vs Supplier

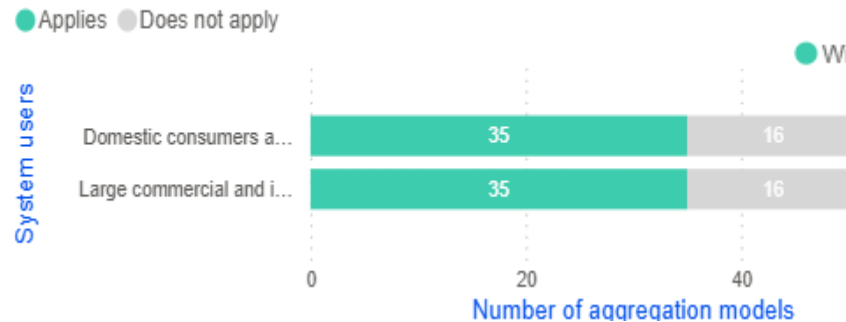


Aggregator - Supplier agreement

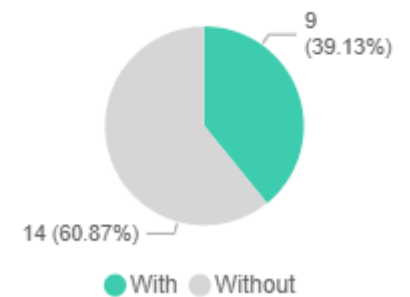


Preliminary results, need to be confirmed

Applicability to system users



Central settlement (no agreement)

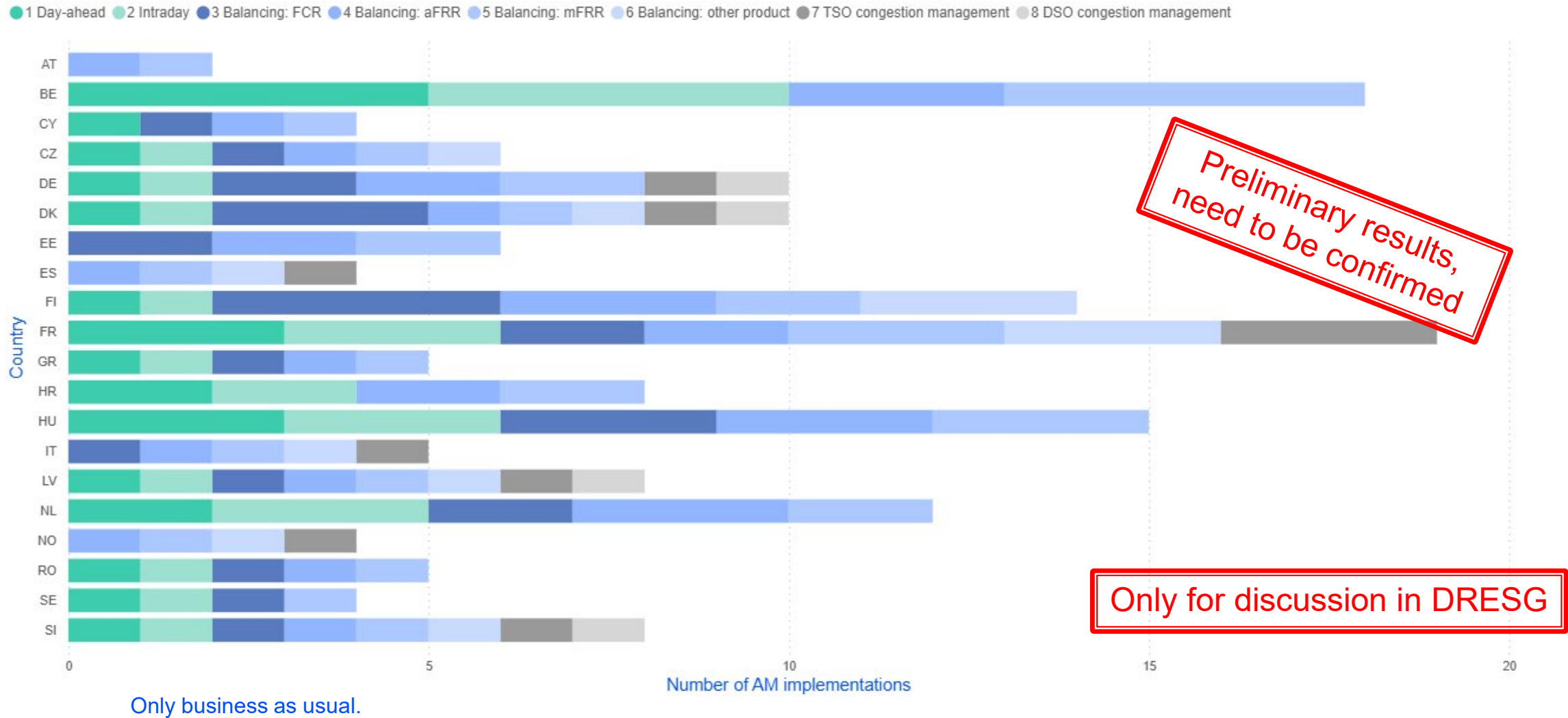


Do these preliminary overview figures reflect your view of the implementation?

Is there something that you consider is not represented accurately?

Only for discussion in DRESG

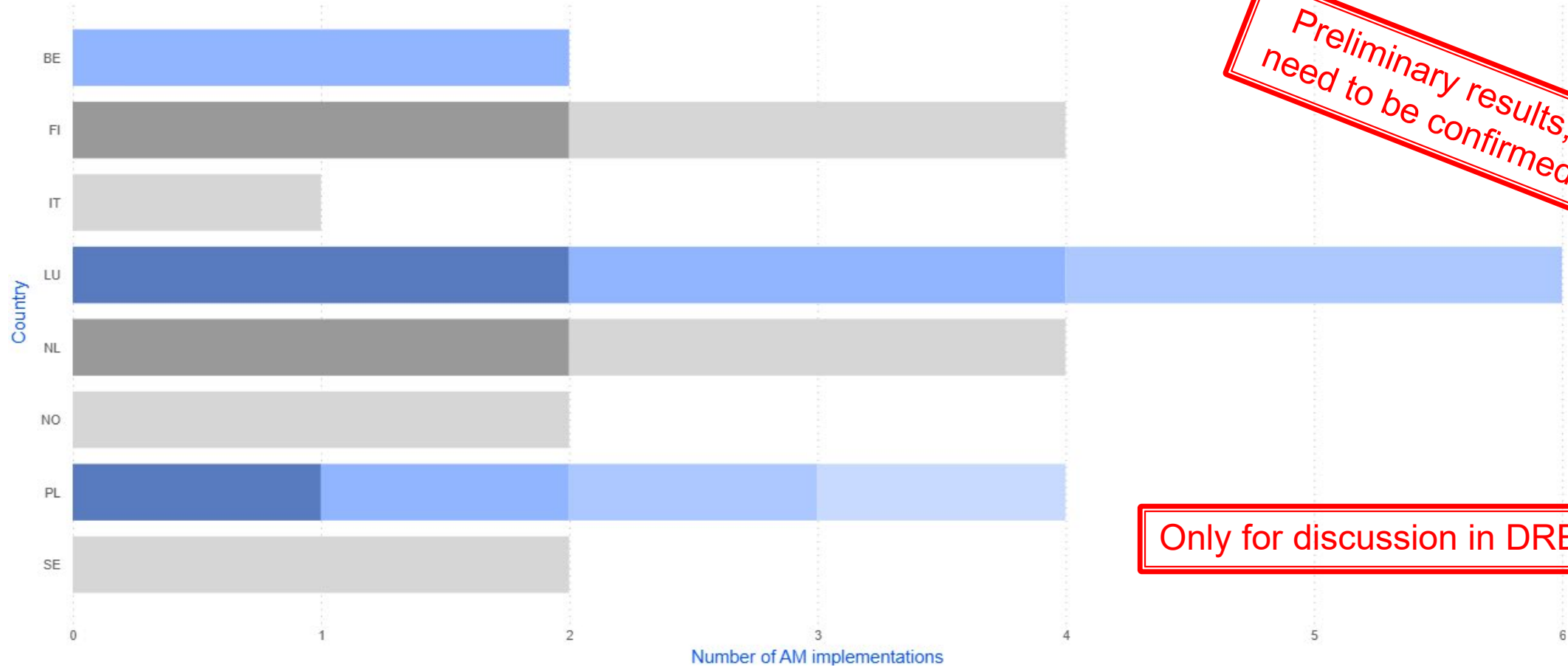
Aggregation models mapping to markets*



*markets means markets and market-based procurement of services, so it should be understood as markets/services/products

Aggregation models mapping to markets*

● 3 Balancing: FCR ● 4 Balancing: aFRR ● 5 Balancing: mFRR ● 6 Balancing: other product ● 7 TSO congestion management ● 8 DSO congestion management



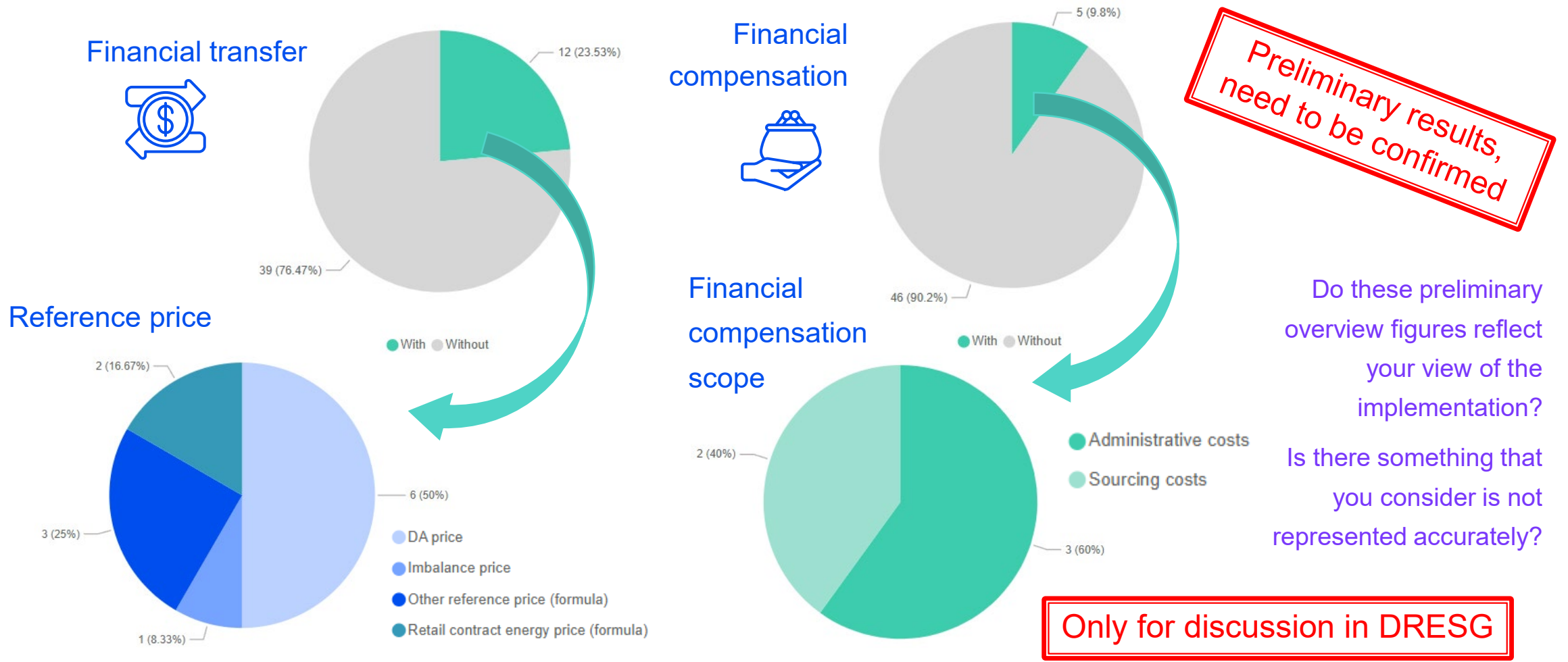
*Preliminary results,
 need to be confirmed*

Only for discussion in DRESG

Pilot cases are included here.

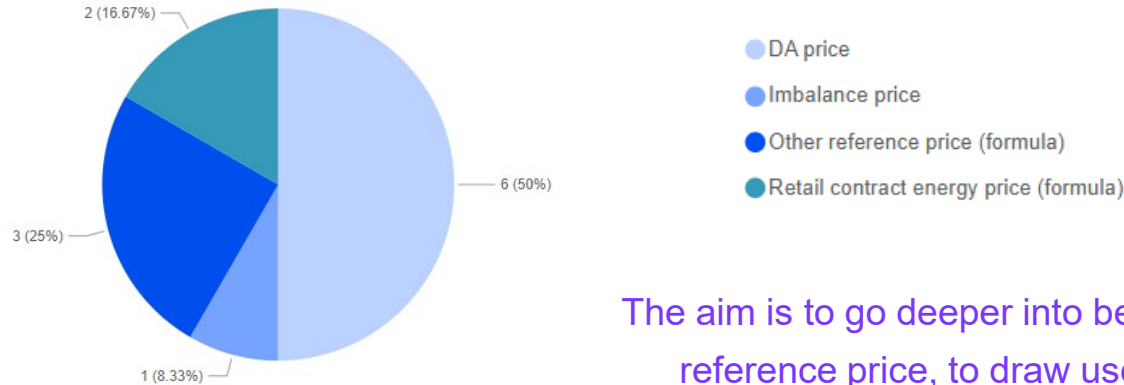
*markets means markets and market-based procurement of services, so it should be understood as markets/services/products

Aggregation models: financial transfer and compensation overview



Financial transfer: reference price per model

Reference price



The aim is to go deeper into better understanding the calculation of the reference price, to draw useful conclusions for the different models.

**Preliminary results,
 need to be confirmed**

Aggregator vs Supplier ×
 Different, without sub-meter

Agreement ×
 Without

FT reference price ×

Is there something you see as relevant?

(for us to further look into)

Is there something missing?

Models with financial tran...
 12

Different, without sub-meter
 11

Different, with sub-meter
 1

Without
 8

With
 3

DA price
 4

Other reference price (form...
 2

Imbalance price
 1

Retail contract energy price ...
 1

Only for discussion in DRESG

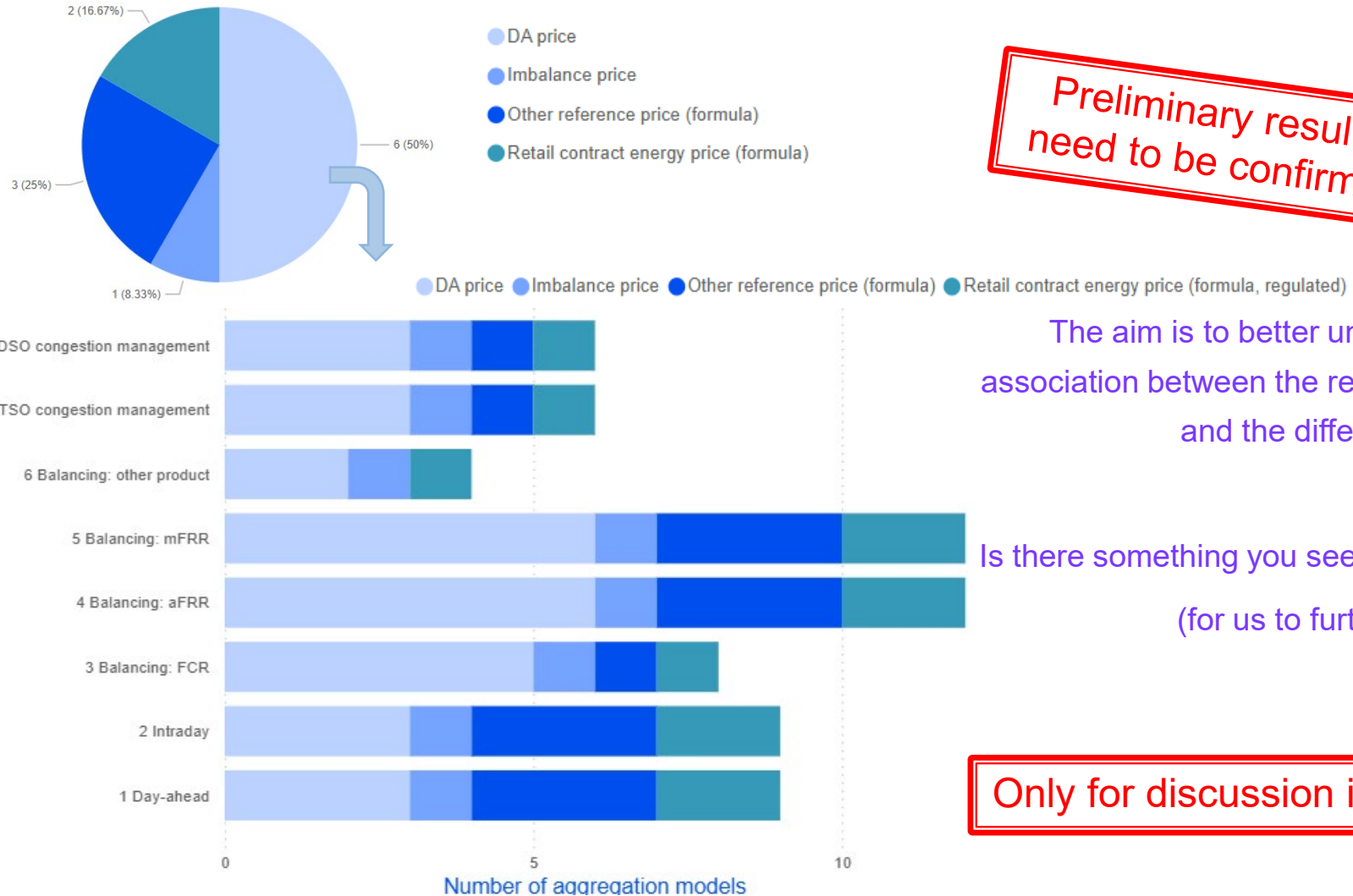
Financial transfer: reference price per market

Reference price



Models with financial transfer: Implementation (BAU, Pilot, Planned) in markets / services / products by financial transfer reference price

Market / Service / Product



Preliminary results, need to be confirmed

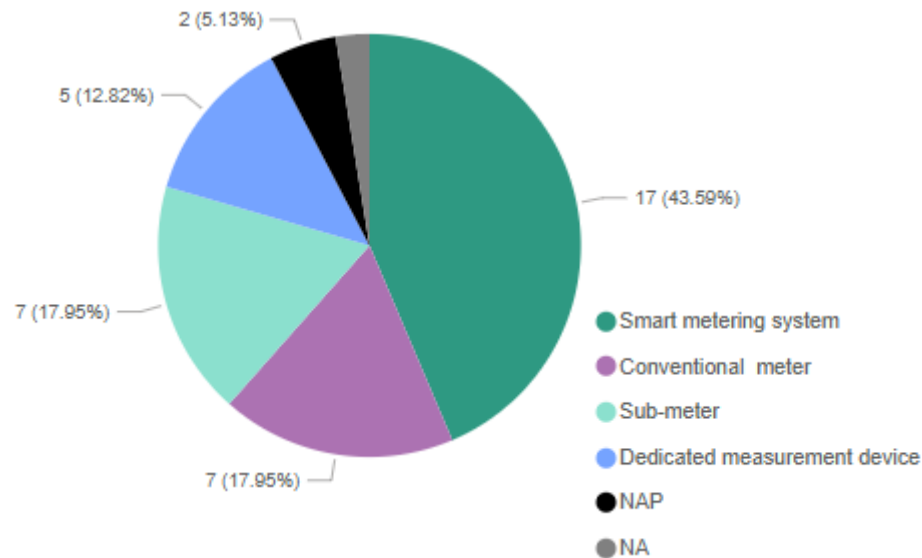
The aim is to better understand the association between the reference price and the different markets.

Is there something you see as relevant? (for us to further look into)

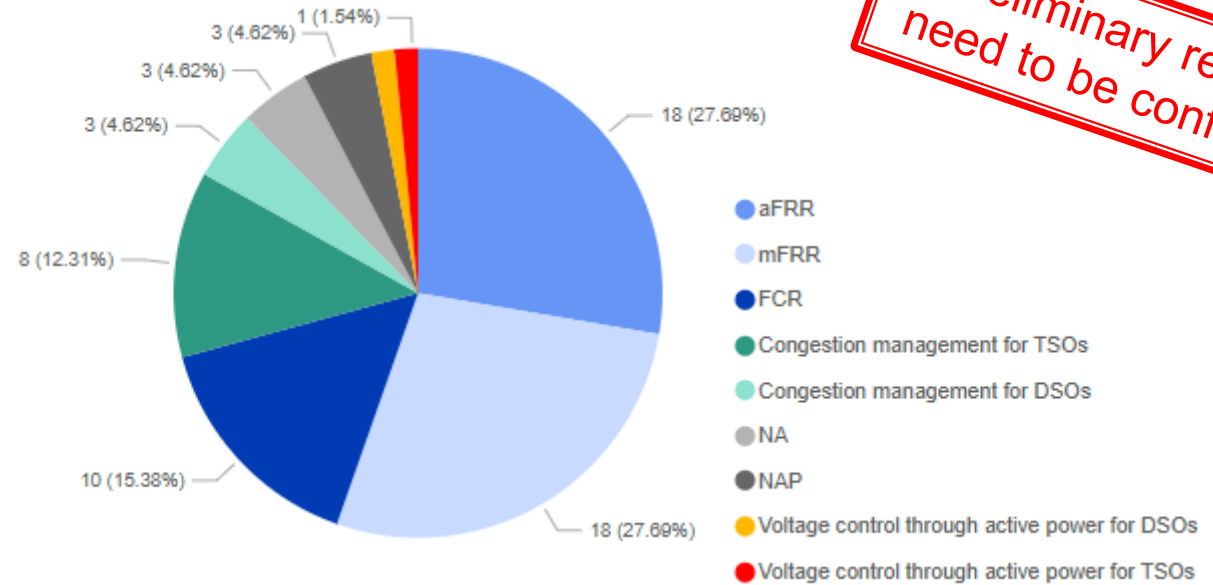
Only for discussion in DRESG

Allocated and activated volumes

Metering devises used for the allocated volume



Activated volume for services



**Preliminary results,
 need to be confirmed**

Only for discussion in DRESG

The aim is to better understand the use of submeters and DMDs for the calculation of the allocated volume (for the imbalance settlement) and the activated volume for each of the services.

Is there something you see as relevant? (for us to further look into)

Thank you. Any questions?

The contents of this document do not necessarily reflect the position or opinion of the Agency.



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