

Establishing the baseline for capital expenditure

PEMPAL MEETING, DECEMBER 2, 2021

Outline

- 1. The trend: baselines on capital expenditure are often over-estimated
- 2. Reminder: where does capital expenditure comme from (prior commitments)
- 3. Commitment authorizations, payment authorizations & how to refine the baseline:
 - 1. 1st step
 - 2. 2nd step
 - 3. 3rd step
- 4. Conclusion & final tip

1. The trend: baselines on capital expenditure are often over-estimated

1. CAPEX baselines are often overestimated

Large and complex projects may induce cost overruns. Nonetheless, when it comes to budgeting, there is a tendency to overestimate CAPEX payments:

- Insufficient knowledge of real commitments
 - How many projects are "alive" ?
 - What are the effective amounts contracted ?
 - → Data collection and analysis on CAPEX is often deficient

- Over-optimism about the rhythm of capital expenditure:
 - Capital expenditures are often a priority of Governments & line ministries
 - But capital expenditure is often complex and thus slow (design of the project, tendering process, implementation hazards, legal issues, ...)
 - > Tension between ambitions and the realities of CAPEX management

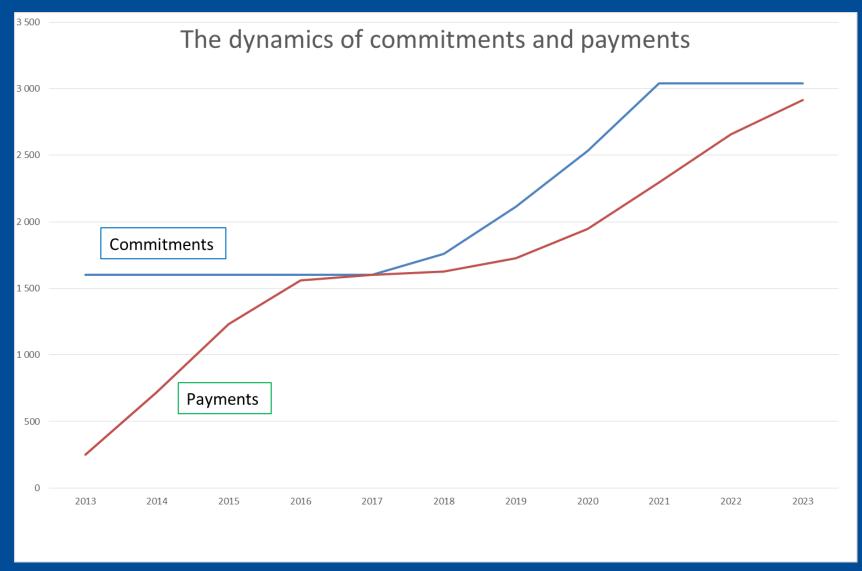
2. Reminder: where does capital expenditure comme from (prior commitments)

2. The CAPEX baseline is mainly determined by past commitments

- A truth often overlooked : in principle, there can be no payment without prior commitment, be it recorded or not
 - A general budget rule
 - Especially important for CAPEX :
 - the legal commitment (signature of a contract) triggers a series of payments that can spread over a number of years
 - with CAPEX, the baseline usually represents the major part of the expenditure for the year

 An obvious need for a budget instrument to closely follow-up commitments, especially on capital expenditure

2. Commitments and payments, an illustration: not as straightforward as it seems



3. Commitment authorizations, payment authorizations & how to refine the baseline

3. Commitment Appropriations, Payment Appropriations, a powerful tool for budgeting CAPEX & assessing CAPEX baselines

Definitions:

- Commitment appropriations (CA): authorizations that can be used only for CAPEX commitments; whatever their form (they may not be appropriations), they set the upper limit for CAPEX commitments in a year.
- Payment appropriations (PA): appropriations that can be used only for CAPEX payments

- Relation between CA and PA; example of a 3 year project:
 - Year 1: Project launched, Contract signed = Commitment made → Commitment recorded by use of a CA.

Use of PAs

- Year 1: 1st payment instalment
- Year 2: 2nd payment instalment
- Year 3: 3rd payment instalment

3. Step 1 : assess payment profile

- Payment profile = the manner in which payments relating to a project (a commitment) spread over budget years :
 - For a 1-year investment project, the payment profile would be: 100%
 - For a 3-year investment project: 33% / 33% / 34%, or 10% / 60% / 30%, or 20% / 60% / 20%
- 1st example: 1 five-year project

Baseline

	Year 1	Year 2	Year 3	Year 4	Year 5	Total				
CA/PA payment profile	10%	20%	30%	30%	10%	100%				
Million €	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Voted CA (commitments)	1 200									
PA	120	240	360	360	120	Y	0	0	0	0

3. Step 1 : assess payment profile

• 2nd example: permanent or long-term investment program

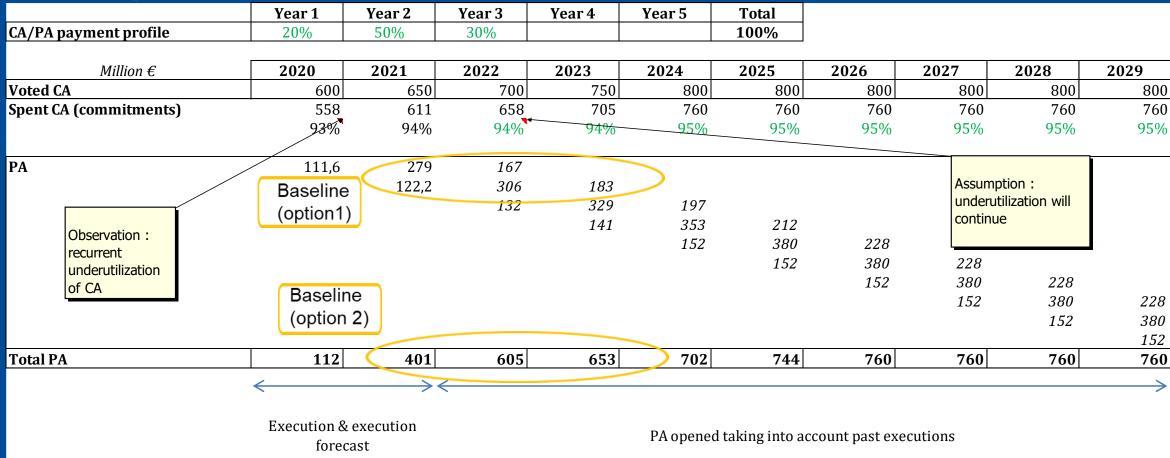
	Year 1	Year 2	Year 3	Year 4	Year 5	Total				
CA/PA payment profile	20%	50%	30%			100%				
Million €	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Voted CA (commitments)	600	650	700	750	800	800	800	800	800	800
PA	120	300	180							
		130	325	195						
Daration			140	350	210					
Baseline				150	375	225				
(option1)					160	400	240			
						160	400	240		
D I'i							160	400	240	
Baselir								160	400	240
(option	2)								160	400
										160
Total PA	120	430	645	695	745	785	800	800	800	800

3. Step 1: assess payment profile

- To assess the baseline, there should be a discussion / agreement between MoF and Line Ministries on the payment profile :
 - Line Ministries are often over-optimistic on the timeliness of their CAPEX: a 25% / 60% / 15% profile may more likely be 15% / 50% / 35%
 - It is important to set this distribution profile which is an important assumption for setting the baseline (and new CAPEX appropriations)
 - It is usually necessary to periodically re-assess the payment profile :
 - Because a project has progressed more slowly than forecast
 - Because over time, a permanent CAPEX line (e.g. road maintenance) may reveal a spending pattern slightly different from initial expectations

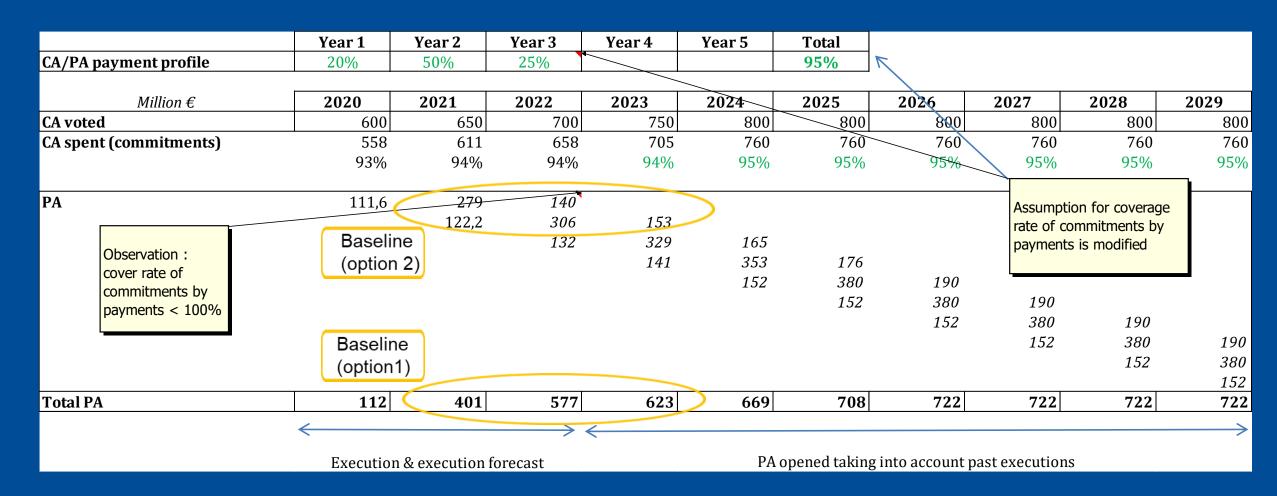
4. Step 2 : make sure you take into account <u>actual</u> <u>commitments</u>

 Actual commitments are often below the budget authorization, which has consequences on the baseline. In other words: stick to the execution.



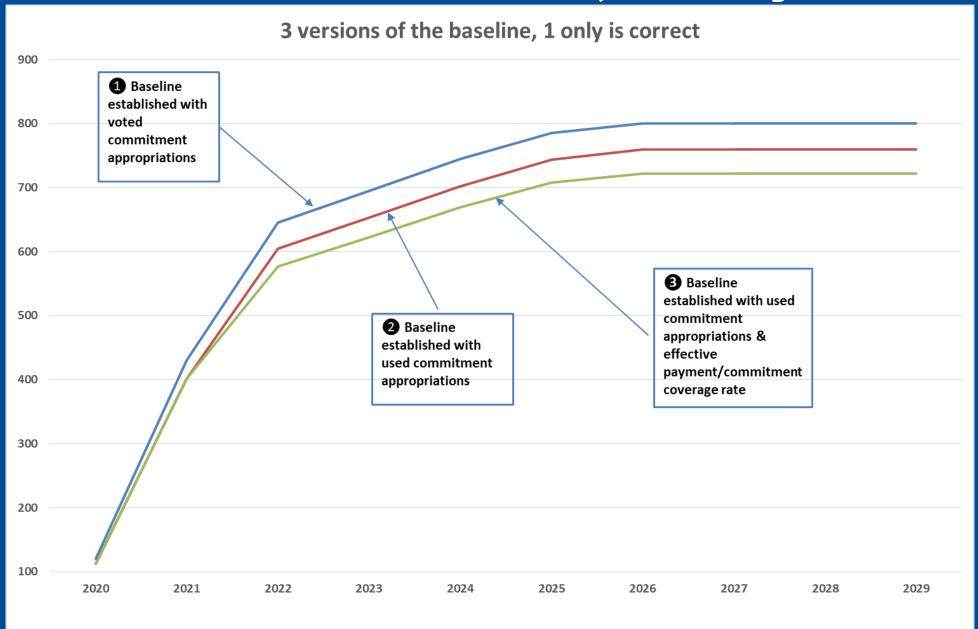
4. Step 3 : make sure you take into account <u>actual</u> <u>payments</u>

Actual payments often do not amount to 100% of commitments



Conclusion & final tip

Three versions of the baseline, one only is correct



4. One last tip

There may be some carried-over appropriations

→ Deduct them from the baseline

	2020	2021	2022	2023
Baseline		401	577	623
Carry-over from 2020	30			
Utilization of carry-over		-10	-10	-10
Ultimate baseline		391	567	613

Thank you