

# ***2016 AQR, Stress testing and recovery plan***

*“Preparation is essential to  
achieving results”*



*Bulgarian National Bank*



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# What is an AQR and ST?

## Asset Quality Review (AQR)

### A. Definition

- ▶ The process reflects the key characteristics of the different asset portfolios, in order to evaluate the *quality* of the bank's assets
  - ▶ Processes, policies and accounting review focuses on examining credit policies
  - ▶ Loan tape brings to light the general outline of each portfolio
  - ▶ Loan file review involves checks at bank's premises of physical files, aiming to assess the actual quality of the portfolio

### B. Purpose

- ▶ Understanding the portfolio asset mix and its respective quality
- ▶ Understanding the need for adjustments to categorization
- ▶ To serve as the basis for the stress test

### C. Key work-blocks

- ▶ Each of the elements in the process is further outlined on the next slides

Processes, policies and accounting (PP&A)

Data integrity validation (DIV)

Credit file review (CFR)

## Stress Test (ST)

### A. Definition

- ▶ The running of the test is about quantifying and extrapolating future losses under a baseline and an adverse macroeconomic scenario
  - ▶ Top-down tests
    - ▶ Consider system-level data (not in-depth bank-level breakdown) and same level assumptions
    - ▶ Applying methods, uniform to all banks
  - ▶ Bottom-up tests
    - ▶ Extracting detailed data at a bank-level
    - ▶ Commonly, more precise than top-down as it uses loan-by-loan data
    - ▶ Calculations are aggregated to system-level results

### B. Purpose

- ▶ Provide a loan loss estimate for each portfolio, in order to estimate the capital required to maintain a specific capital ratio under baseline and adverse scenarios

### C. Key work-blocks

Loss absorption capacity

Capital needs (under the specified scenario)



# Phases of the Asset Quality Review (AQR)

*AQR is a risk-based assessment and...*

## Work-block

## Summary of work

1. Processes, policies and accounting review (PP&A)



The review will cover policies around valuation of assets, with particular focus on credit policies and the Bank's definition of forbearance and NPEs.

2. Loan tape creation and data integrity validation (DIV)



DIV will be performed on loan tapes provided by the Bank to assess data quality. DIV testing will be pre-programmed to ensure maximum efficiency.

3. Sampling



The sample selected will be representative of the in-scope portfolio, and samples per bucket will be selected at random.

4. Credit File Review (CFR)



A classification and impairment review will be performed as necessary. The approach will factor complexities associated with the nature of the Bank's portfolio.

5. Collateral and real estate valuation



Where applicable, collateral or on-balance sheet real estate will be valued, according to the AQR methodology.



# Phases of the Asset Quality Review (AQR)

*...will concentrate on those elements of individual banks' balance sheets that are believed to be most risky or non-transparent.*

## Work-block

## Summary of work

6. Projection of findings of the Credit File Review



Projections of CFR findings will be applied to the wider portfolio. Anomalous findings will be excluded from projections to ensure a homogenous extrapolation.

7. Collective provision analysis



The AQR methodology challenger model will be calculated and comparative analysis will take place to identify shortcomings with the Bank's model.

8. Level 3 fair value exposures review



A revaluation of the significant level 3 exposures will be performed along with a qualitative trading book review if this is applicable.

9. Determine AQR adjusted CET1 ratio



Findings from the previous work-blocks will be applied to the Bank's Common Equity Tier 1 ratio, to determine supervisory measures, if any.

10. Quality assurance

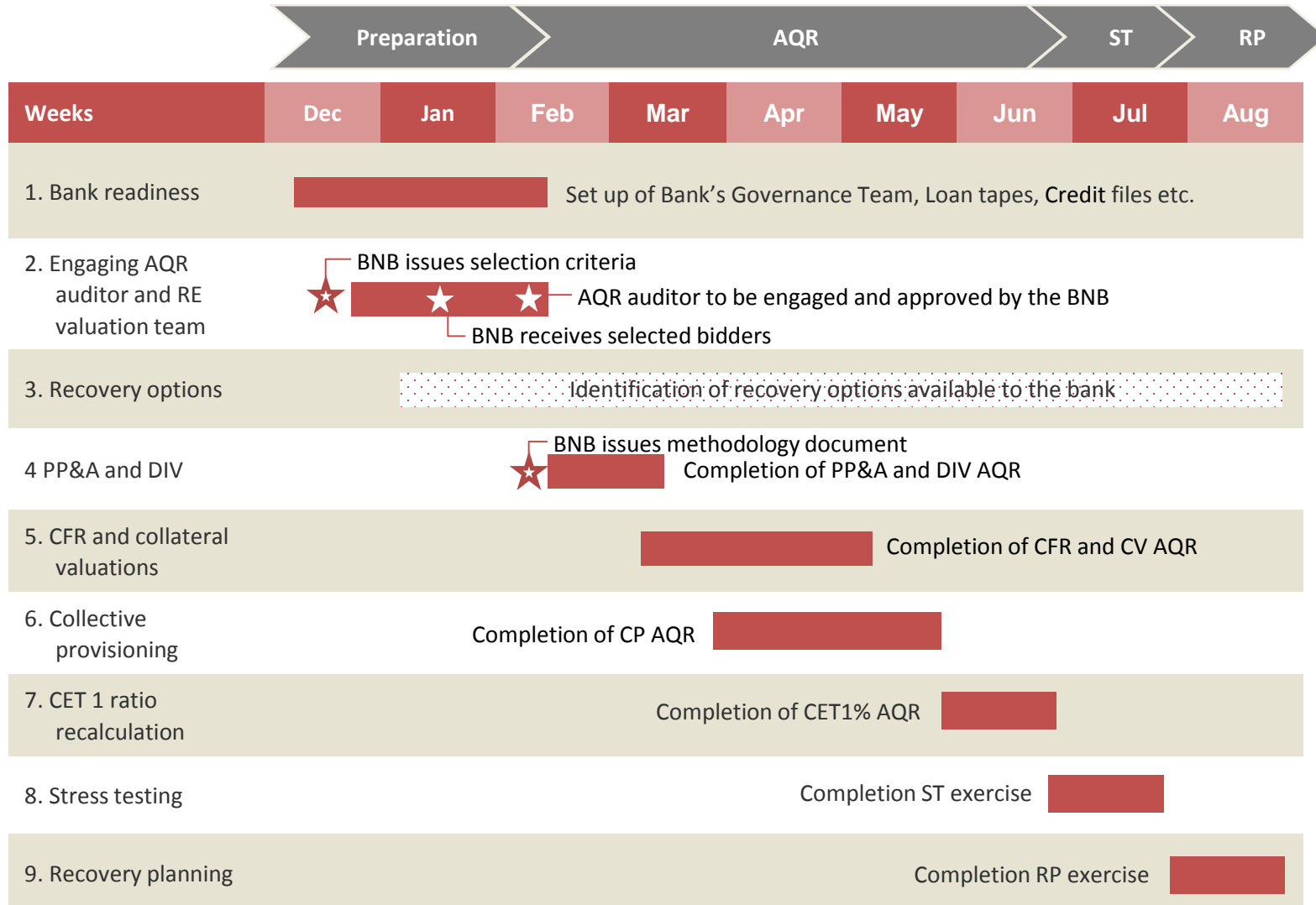


A robust Quality Assurance framework will be applied internally and will ensure that the 4 eyes principle is implemented for all relevant work and deliverables.



# Project timeline

**Project timelines are tight, therefore it is key that you initiate readiness and procurement of an AQR auditor immediately**



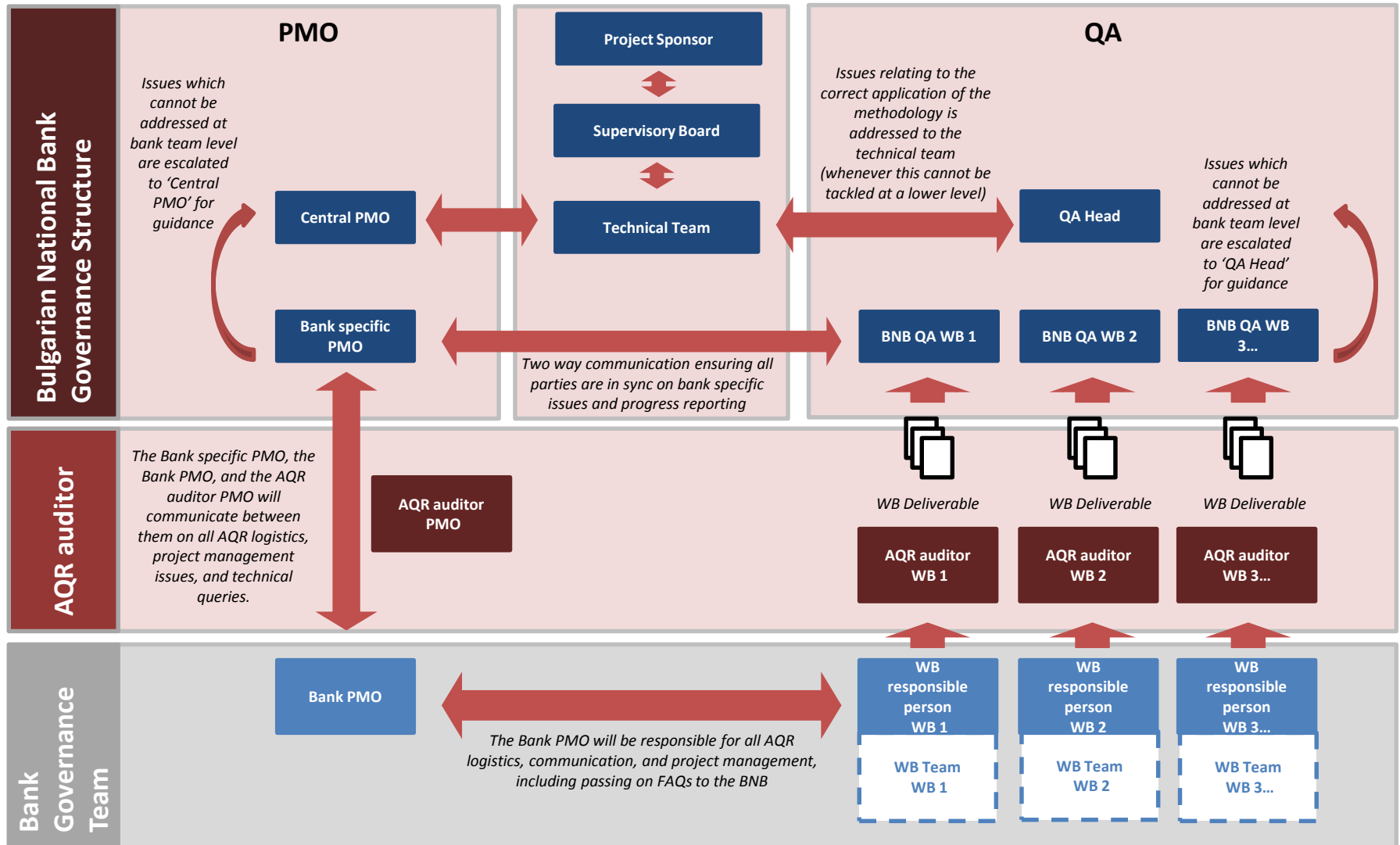
- Bulgarian legislation requires that the exercise is complete by August;

- Good data tapes are necessary to a successful exercise and positive results;

- You will need to engage an AQR auditor and real estate valuation team.



# How your governance structure links to that of the project





# What you need to prepare for the exercise

## Quality loan tapes, files, and collective provisioning models are all essential to ensuring successful results



### Loan Tapes - ECB manual WB 2

- All subsequent AQR work-blocks are performed based on data in the loan tapes
- Each in-scope portfolio consists of six data tapes, three as at the AQR date and three for prior year
- Debtor tape contains 18 fields, facility tape contains 41 fields, collateral tape contains 13 fields

### Comprehensive Credit Files - ECB manual WB 4



- Files for non-retail business are at debtor level, retail business at facility level
- See appendix for minimum info on file
- Default NPE classification in the event of a lack of information on file
- If impaired, the lack of information on file will result in adverse provisioning



### Complete Collateral Files - ECB manual WB 5

- In the case of a gone concern review, all immovable property held as collateral will need to be valued independently
- If there is no sufficient information on file, a value of 0 will be allocated and provisioning will be applied accordingly
- Valuations carried out, as at or after December 1<sup>st</sup> 2015 will not be accepted

### Robust Collective Provisioning Model - ECB manual WB 7



- The first step of the collective provisioning work-block will include a review of the collective provisioning methodology used by the bank
- Your collective provisioning will need to tie in to your financials and regulatory reporting templates, and you will need to justify your model methodology
- Absence of justification will likely result in higher challenger model provisions





## Key project governance and contacts

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