



2016 CEF Transport Calls ERTMS

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1. ERTMS Specific Objectives

2. ERTMS Application and Grant Agreement

Budget, Objectives, Co-Funding:

BUDGET:

- €70 million (MAP general envelope)
- €80 million (MAP cohesion envelope)

SPECIFIC OBJECTIVES:

- ERTMS Track-side (TS) deployment/upgrade
- ERTMS On-board (OB) deployment/upgrade

CO-FUNDING:

- ERTMS: max 50%/85% (CF) of the el. costs
- Infra works (TS): max 40%/85% (CF) of the el. costs

ERTMS Track-side deployment (1/2)

Principles:

- **Baseline 2 (#1) and B3(#2 or #3) PRIORITY!**
- Core Network with priority to cross-border sections of Core Network Corridors
- New and constructed lines
- Infra works (for L2), e.g. interlockings
- GSM-R: only as a part of ERTMS (L2)
- Preparatory actions (e.g. studies, ToR, etc.)

ERTMS Track-side deployment (2/2)

Costs:

- ERTMS deployment: **ceiling of €260k/km of double track line** (incl. Hard/Software, ETCS, GSM-R for L2)
Section \neq double track $>$ a double track equivalent
- **no ceiling** (actual costs + **justification**):
 - ERTMS upgrade
 - Infra works (L2)
 - Preparatory actions

ERTMS On-board deployment (1/2)

Principles:

- B3 only
- Existing vehicles (already in operation) only
- Upgrade from pre-B2/B2 to B3
- Training, ad-hoc expertise for SMEs

ERTMS On-board deployment (2/2)

Costs:

- ERTMS retrofit, incl. prototype vehicle: **ceiling of €250k/ERTMS OBU** (incl. Hard/Software, ETCS, GSM-R if applicable)
- **no ceiling** (actual costs + **justification**):
 - ERTMS upgrade
 - Training, ad-hoc expertise

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ERTMS Application (1/5)

The same structure of each specific objective in the WP:

- Description: **read carefully, check if you fit**
- Essential Conditions: **prove they are met**
- Tech. info.: **provide as requested (quality not quantity counts)**
- Funding conditions:
 - **check and apply in the proposal**
 - **no ceiling: provide background info on actual costs**
- Deliverables: **analyse and make sure they can be provided**

Call = Competition, so make sure that
the application is logical, complete, consistent and clear!

Benefit from the **Guide for Applicants** and **FAQ**

ERTMS Application (2/5)

- Separate applications:
 - OB/TS
 - Preparatory actions/ ERTMS TS deployment
- Preparatory actions (e.g. studies, ToR, etc.): followed by deployment!
- OB/TS: scope in 1 or more Member States - OK!
- GSM-R: ERTMS L2 (with ETCS) only
- Cost-Effectiveness Analysis (No CBA)

ERTMS Application (3/5)

Rail – ERTMS TS combined (Cohesion MS only):

- ERTMS TS on the same sections as rail works
- Rail and ERTMS TS presented separately (tech/fin)
- ERTMS requirements (info, ceilings) to be applied

ERTMS Application (4/5)

"Ideal" proposal TS:

- **Include all requested information on the proposal** (3.1.4.1 c) considering if deployment or upgrade (e.g certificates and declarations of the existing subsystem for upgrades)
- > 1 section: 1 activity = 1 section
- Address call deliverables
- Milestones: Identify milestone per deliverable
- Infrastructure works: separate activity(ies)

ERTMS Application (5/5)

"Ideal" proposal OB:

- **Include all requested information on the proposal** (3.1.4.2 c) considering if deployment or upgrade (e.g. copy of the current authorization from an NSA)
- Prototyping foreseen: 2 activities per vehicle type, i.e. A1: Prototyping and A2: Serial Retrofit
- Address call deliverables
- Milestones: Identify milestone per deliverable
- Training, ad-hoc expertise: separate activity(ies)

ERTMS Grant Agreement

- Based on application and evaluation, but takes into account call requirements, e.g.:
 - Deliverables (identified in the WP)
 - Costs, in line with ceiling
- Description: Concise, quantitative info on the scope, deliverables, milestones (per deliverables)
- Activities TS: usually 1 activity per section
- Activities OB: usually up to 2 (if prototyping) activities per vehicle type

ERTMS Project implementation

- Final meeting: demonstration ride/ RBC visit
- Dedicated tech. support: Deployment Management Team
- **DELIVERABLES** (in line with the TSI CCS and EU legislation):
 - demonstrate EU authorisation process
 - ultimate verification of completion (regardless of final meeting)
 - provide ASAP, preferably once available and well before the planned submission of the FPC
 - incompleteness/ lack of TSI compliance demonstration might lead to a payment reduction/rejection
- Involve NoBo(s) and NSA(s) as soon as possible!

Track-side deployment deliverables:

- Engineering rules and operational scenarios
- Interoperability risks with mitigation measures (Approval process). Collaboration with the DMT strongly recommended
- Test results (incl. operational scenarios)
- EC decl. and EC cert. of conformity of interop. constituents
- EC decl. and EC cert. of verification of the TS subsystem
- Filled template of deviations or restrictions
- Application file for NSA Authorisation (Authorisation if available at the final payment stage)

On-Board deployment deliverables:

- Tests reports in line with TSI CCS (use of accredited laboratories required, ISO17025)
- EC decl. and EC cert. of conformity of interop. constituents
- EC decl. and EC cert. of verification of the OB subsystem
- Filled template of technical compatibility details
- Application file for NSA Authorisation (Authorisation if available at the final payment stage)



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Look for INEA!

Thank you!