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### **PO Annex template**

- □ PENTA Call 5
- □ EURIPIDES<sup>2</sup> Call 13
- PENTA-EURIPIDES<sup>2</sup> colabel
- □ EURIPIDES<sup>2</sup>-PENTA colabel

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### Foreword

Do not remove or modify in any way the sections having these notations.

All guidelines in the template appear in this "boxed" format. These instructions, as well as the preceding title page ("PO Annex template") and this foreword, should never be removed manually from the submitted files: they are automatically removed by the merging function of the EURIPIDES<sup>2</sup>-PENTA Project Zone. Potential layout issues appearing when removing the instructions (e.g. a large image leaving half a page blank) will be adjusted by the AENEAS-EURIPIDES<sup>2</sup> Offices, between the proposal submission and the transfer of the generated PO/FPP to the reviewers.

*NB:* all texts between "<" and ">" symbols (incl. on the front page and in the headers) should be replaced or removed.

It is highly recommended that you carefully read all the instructions provided: they indicate for each chapter and subchapter what is expected, and must be carefully taken into account.

It is crucial that proposal writers comply with the pre-defined formatting and styling rules: breaking these rules may create errors when inserting the auto-generated sections and thus cause the merge process to fail. Complying with formatting rules can be achieved by adhering to the following guidelines:

- do not remove any predefined title and do not add headers, incl. annexes, that are not supposed to be defined according to this template, at any level of the hierarchy (e.g. do not add a §5 after §4 Rationale for public funding); in particular, for references or publications, as additional annexes are forbidden, please rely on footnotes; you are, however, free to add subsections when there is no subsection yet defined (e.g. you can define a subsection §2.2.1.1 within §2.2.1 Market analysis);
- do not modify the predefined styles, except for standard "emphasis" effects (i.e. underlined or bold text) – we recommend using the underlined and bold formatting in a consistent and prudent way throughout the document, and on body text exclusively;
- only use the pre-defined styles that start with "PENTA\_": the most relevant ones are "PENTA\_BodyText" for standard paragraphs (Arial 10 with a line spacing factor of 1.2 pt), "PENTA\_BodyBullets" for bullet points within standard paragraphs and "PENTA\_Figure"; for captions, you can use the standard "Insert Caption" function from Word, as it will automatically use the "PENTA\_Caption" styling; these styles are accessible in the "Quick Styles Gallery" of the "Home" tab;
- do not remove the instructions (both green and orange ones), and do not remove the autogenerated sections, incl. the annexes;
- do not overload the document with uncompressed / excessively large images; a proposal should ideally fit in less than 10 MB.

It is in the interest of consortia to ensure that a merged document (i.e. including auto-generated sections) can be generated and downloaded before the submission deadline so that all the relevant information is provided in the project proposal document.



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Items that need to be filled in exclusively via the EURIPIDES<sup>2</sup>-PENTA Project Zone will have the following notation:

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Unless otherwise specified, section length recommendations (in pages) are provided as suggestions to help the editing. However, <u>the overall length</u> of the final merged document up to section §4 excluded <u>must not exceed 35 pages for a PO and 65 pages for an FPP</u>, which roughly corresponds to an uploaded file of 45 pages for a PO, and of 75 pages for an FPP (all sections included, i.e. including comments and empty auto-generated sections).

You should be aware that if you exceed the recommended length, this will adversely affect the evaluation by the reviewers





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### **Project Outline Annex**

<ACRONYM> or <PROJECT NAME>

<FULL PROJECT NAME>

### Strategic Challenges Areas addressed

(please refer to the PENTA Strategic Challenges and/or the EURIPIDES<sup>2</sup> Vision Mission and Strategy)

Edited by: <name> Date: <date>

Apart from the State-of-the-Art-dedicated text (§2.3.1) which is handled by the AENEAS - EURIPIDES<sup>2</sup> Offices as public information, unless otherwise specified by the consortium, this document will be treated as strictly confidential.





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### Project key data

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The inserted key data will contain (among others) the acronym, full title, time frame, the respective countries and partners per country, the coordinator, as well as a short description which should include the project idea, the main expected market impact and the main technological objective.



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### **Project acronyms**



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### 1. Project one-page description

(Mandatory length: 1 page)

Provide, within one page maximum, a strategic description of your proposed project addressing:

- the context and goals of the proposal;
- the business relevance and the targeted market impact;
- the innovative aspects and the major expected technical outcomes;
- the consortium relevance.

<Text to be inserted here>

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### 2. Project overview

#### 2.1. Rationale of the project

#### 2.1.1. Problem statement and market value chain

#### (Maximum length: 1-2 pages)

Introduce here the problem the project aims to solve. Explain the current issues, limitations or bottlenecks of what currently exists, explain the needs you plan to satisfy or to create.

Describe the societal, economic and/or technological challenges addressed by the proposed project.

Also introduce the market value chain(s). The market value chain is a representation of the various processes involved in producing products or services and delivering them to the market. It indicates where and how value is considered and created, and how the market actors in their respective markets can be profitable. It also describes the actors' strategies and relative positioning: it must show all the actors involved in designing, producing, distributing the products and/or services and the relationships among them. All the peripheral actors who can influence the market(s), through regulations, recommendations, indirect suggestions, etc., must also be included. Describe clearly the interfaces between these actors and define the customer – provider relationship(s) wherever relevant.

This subsection describes the context and background relevant to the project, in terms of technological and market status, not the project itself. It should convince evaluators that the project partners have a good understanding of the context in which they will be evolving, both technology-and business-wise.

#### <Text to be inserted here>

#### 2.1.2. Project innovations and technology value chain

#### (Maximum length: 1-2 pages)

Present here a brief view of the project innovations you are introducing: focus the description on novelty in terms of the state-of-the-art. Innovation can include both technological, process, usage and business model innovations. Explain what the project brings to the table, how it differs from existing results and previous or current projects, products and services, how partners will be able to differentiate themselves from existing market actors and become competitive (or how they can create or reimagine a market). Remain concise in this section (cf. §2.2 and §2.3).

Describe in a few words what the project aims to achieve and how it backs the broader goals of the main partners.

Introduce also the technological value chain(s): it is a kind of modular architecture comprising the main functions and building blocks required to create the solution, as well as their interactions.

This subsection should convince evaluators of the novelty of the project proposal.

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<Text to be inserted here>

#### 2.2. Targeted impact

#### 2.2.1. Market analysis

#### (<u>Maximum</u> length: up to 2 pages)

Present here a detailed market analysis that is focused on the actual markets targeted by the project partners. Present market trends (e.g. graphics and figures), main products, describe the landscape in terms of competing or alternative solutions (companies, products...), the situation in Europe vs. US and Asia, etc.; provide figures whenever possible. Use up-to-date data or comment on outdated information (e.g. forecasts of several years ago). Do not rely solely on current market situations but consider also predictions and estimates of future growth from the latest studies.

Describe the existing or announced industrial products or services in the project domain. Explain which competitive advantages the market leaders have and how differentiation could be achieved towards them. Detail why smaller actors are restricted to low market share (e.g. targeting niche markets or competitiveness issue) and how volatile the market currently is (are there more and more actors or is it the opposite? In the latter case, does it derive from market consolidation or from competitors dying out?).

Present existing and potential and/or forecasted competitors (e.g. Google in the car industry or satellites). Do not hesitate to introduce Porter's five forces model of competition to describe (on top of the current industry competitors) not only suppliers and buyers, but also potential new entrants as well as threat of substitutes.

This subsection should convince evaluators that the project partners have a clear and detailed understanding of the market they are targeting, including not only the current situation but also the current trends, forecasted evolutions and potential threats.

<Text to be inserted here>

#### 2.2.2. Consortium market access

#### (*Recommended* length: up to 4 pages)

Describe how the introduced innovation will help achieve competitive advantage. Explain the expected business impact of the project with respect to the competition (see §2.2.1). Each of the partners (except for the academics and research centres) should clearly identify its markets, opportunities and how it intends to profit from them.

PENTA and EURIPIDES<sup>2</sup> projects are designed to enable organisations to achieve leadership positions in the value chains addressed as part of the programme. As such, information should be provided in relation to potential IP, opportunities for company development (especially SMEs), along with an analysis of the market State-of-the-Art and competitor positions in the market leading to an understanding of how the outcome of the programme will enable leadership in the applications or systems served.

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Detail how the partners will exploit the actual project results after the project end. When possible, briefly discuss a timeline for commercialising the project outcome (keeping in mind that funded projects may not directly develop products or services): indicate the most relevant technology deployment time range, i.e. short-term (less than two years after project closure), mid-term (two to four years) or long-term (five years or more) that can be expected.

*NB:* while ambition is at the core of competitiveness, it is also important to remain <u>realistic</u> and <u>credible</u> with regards to the partner targets and capabilities.

Detail also in this section the global strategy deployed towards achieving the exploitation goals, for instance (and when relevant) through:

Standardisation:

Standardisation should be seen as a way to enable exploitation plans, e.g. by enabling a market to take off, by helping integrators to embrace the proposed technology, by counterbalancing proprietary solutions of leading competitors, etc.

Dissemination:

Dissemination and exploitation measures should address the full range of potential users and uses including research, commercial, investment, social, environmental, policy making, setting standards, skills and educational training

Consider here dissemination towards customers, communities (industrial, scientific, etc.), incl. communications, seminars, workshops, conferences, papers, courses, etc. Dissemination must be seen as a tool to make potential customers or partners aware of the project achievements and results, within and outside the organisations participating in the project.

Define and justify a dissemination strategy actually supporting and having impact on the project, i.e. justify the choices made (e.g. why selecting given workshops rather than others). Indicate how the project results will be disseminated in the course and at the end of the project, i.e. by means of (e.g.) which presentations in workshops and conferences, publications, etc.

If fast exploitation is expected, explain what exactly is targeted, and how the consortium intends to achieve these goals.

This subsection should convince evaluators that the consortium is credible, legitimate and relevant to address the market and to exploit the project results (if successful) to generate business (i.e. that it can have an impact on the market). This subsection should be market oriented and should only focus on the long-term goals of the project (i.e. what is expected to be achieved thanks to the project outcomes, i.e. after the project closure).

<Text to be inserted here>

#### 2.2.3. Impact of the project on the Overall Goals of PENTA and EURIPIDES<sup>2</sup>

(Recommended length: up to 1 page)

PENTA and EURIPIDES<sup>2</sup> have at their core the following goals:



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To reinforce and enhance existing strengths in Europe by focusing on areas where Europe has strong leadership,

To close gaps across the European value chain for micro- and nanoelectronics, components and systems integration from technology providers to end users - thereby stimulating the European Electronics market as a whole,

To identify and develop new market leadership opportunities for Europe's micro- and nanoelectronics and smart systems integration industries and associated industry sectors thereby providing the ability to support future European champions through disruptive business or market approaches.

The consortia should identify how the successful conclusion of the project will contribute towards some or all of these overall goals.

<Text to be inserted here>

#### 2.3. Technology

#### 2.3.1. State-of-the-Art (SotA) analysis

#### (Recommended length: 3 pages)

Describe the current technological situation in the project domain with a detailed technical state-ofthe-art, with regard to current products, prototypes and research results and trends, both on the industrial and academic sides.

For the research state-of-the-art (SotA), also document how your proposed project relates to, and/or builds on results of, and differentiates from, other (past or running) cooperative (e.g. H2020, PENTA, CATRENE, EURIPIDES, ECSEL or National) projects: we recommend filling in, for each of such projects a short description thereof in the suggested table below, focusing on the aspects related to the proposed project and a short description of how the proposed project relates to, and/or builds on and differentiates from it. Please note that in this table below, the last column, "Relationship", should explain:

- which input modules will be reused from the mentioned project;
- and/or what will be transferred from this proposal to the mentioned project;
- or the reasons why the consortium does not intend to reuse/transfer results from/to the mentioned project (i.e. why the results already achieved are not useful for this proposal).

*NB:* For each past or running PENTA or EURIPIDES project, a summary description will be available on the PENTA and EURIPIDES public websites.

The state-of-the-art described in the project proposal will have to be updated / extended in the course of the project and integrated in a public deliverable. Except for specific cases, the <u>state-of-the-art dedicated text of section 2.3.1 (excluding Table 1, related collaborative research projects)</u> of the project proposals <u>will be considered by the AENEAS - EURIPIDES<sup>2</sup> Offices as a public document</u> which could be added to the State-of-the-art database.

This subsection should convince evaluators that the project partners have detailed knowledge of the technological background (and evolution) in the targeted field. PENTA and EURIPIDES<sup>2</sup> consider the



State-of-the-Art analysis as a key tool to clearly understand and steer innovation all along the project lifespan.

- Beginning of public section -

<Text to be inserted here>

Link to previous and/or current collaborative research projects:

Project Name	Cooperative Programme	Time period (approx.)	Technical Focus	Relationship
<acronym></acronym>	<e.g. PENTA&gt;</e.g. 	<2016 - 2019>	<text be="" here="" inserted="" to=""></text>	<text be="" here="" inserted="" to=""></text>
<acronym></acronym>	<e.g. EURIPIDES &gt;</e.g. 	<2013 - 2019>	<text be="" here="" inserted="" to=""></text>	<text be="" here="" inserted="" to=""></text>
<acronym></acronym>	<h2020></h2020>	<2014 - 2020>	<text be="" here="" inserted="" to=""></text>	<text be="" here="" inserted="" to=""></text>
<acronym></acronym>	ECSEL	<2014 - 2020>	<text be="" here="" inserted="" to=""></text>	<text be="" here="" inserted="" to=""></text>

Table 1: Related collaborative research projects.

#### 2.3.2. Proposed technological innovation and novelty in relation to the SotA

#### (Recommended length: 5 pages)

Clearly explain the progress and technological innovation proposed by your project, with reference to the current technology state-of-the-art. Explain what differentiates the project from other R&D efforts, how it builds on the SotA and which novelty it brings from a technological standpoint.

This subsection should convince evaluators that the consortium has sufficient insight into the technological challenges and proposes significant breakthroughs to bring technological innovation and novelty.

<Text to be inserted here>

#### 2.3.3. Expected project outputs

(Recommended length: 1 page)

Detail the concrete final results of the project: give a clear description of what will be its actual set of outputs (new markets, new products, new applications, prototypes, demonstrators, IP positions



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etc.)The description should be detailed enough to give a clear picture of what will be generated, including the core functionalities and levels of maturity.

At the end of the project, the results will be confronted with the content of this subsection (potentially updated through Change Requests). A poor description will be considered as a lack of expected results, or as significant uncertainty about what will be delivered: clarity is therefore highly recommended here.

The requested description must focus on <u>tangible</u>, <u>realistic</u> and <u>credible</u> outputs that will be developed within the project (if the project extends existing solutions, then clearly clarify the specific contributions of the project) and available at project closure, i.e. demonstrated at the final project review. Post-closure results, like exploitation plans and prospects, have to be indicated in §2.2.2.

This subsection should convince evaluators that the project will deliver tangible results of interest that will support the business goals of the project partners.

<Text to be inserted here>

#### 2.3.4. Quantified objectives and quantification criteria

#### (Recommended length: 2 pages)

Consider the expected project results (cf. §2.3.3), and for each one of them define appropriate quantification criteria (Key Performance Indicators - KPIs) that will be used to measure the objective achievements, i.e. what will enable the consortium and evaluators to measure during the course of the project the progress achieved towards the goals. The KPIs should not cover the steering & management of the project, but cover actual exploitation oriented project results.

*Example 1: For nanoelectronics technology development of a pilot line the number of wafers processed, the processing time and the production yield.* 

Example 2: For the nanoelectronics application development in power electronics to develop 20% more energy efficient automotive power semiconductors and to realise 10% EMC emission reduction through development of EMC filters.

*Example 3:* For the development of an embedded framework to enhance the security and privacy protection of future platforms, to reduce by 40% the leakage of uncontrolled data to remote servers versus currently available platforms.

*Example 4: For electronic systems development, the number of demonstrators delivered at the end of the project* 

Example 5: For systems integration, the number of devices which will become available

This subsection should convince reviewers that the clear analysis and quantification of project progress will be possible during the project lifetime.

<Text to be inserted here>



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#### 2.4. Consortium overview

For many Public Authorities, it is crucial to already have at the PO stage a clear national consortium as well as clear costs & effort figures: indeed, many countries need to decide on national budgets before the FPP deadline, which means significant changes between POs and FPPs at the consortium and cost levels should be limited to clearly needed updates (in particular, based on the PO evaluation feedback from reviewers and Public Authorities).

For PENTA and EURIPIDES, the PO phase is a critical milestone in the evaluation process and it cannot be emphasised too much how important it is to include complete, but concise, information at this stage to allow Public Authorities to begin the process of financial planning

#### 2.4.1. Cooperation added value: business level

#### (Recommended length: 2 pages)

Position the consortium partners in the market value chains as described in §2.1.1. Explain the business rationale behind the consortium composition, providing convincing elements regarding the consortium legitimacy in terms of the business:

- describe the core idea motivating the partners to collaborate and explain how this consortium helps them achieve their business goals;
- describe how the cooperation is adding value;
- explain why the international collaboration (and in particular the PENTA/EURIPIDES programmes) is a good way to reach the targets;
- in the event that the consortium does not cover the whole value chain for the respective markets, explain why this is not an issue for the project, and how the consortium intends to overcome this missing link.

In any case, it is strongly recommended to involve (directly or indirectly) end-users and potential future costumers in the project, and to set up (whenever possible with these end-users) strong business cases which will derive in business-oriented demonstrations.

This subsection should convince the evaluators that the consortium has enough business power to have an impact on the market.

#### <Text to be inserted here>

#### 2.4.2. Cooperation added value: technology level

#### (Recommended length: 2 pages)

Describe who among the partners will achieve the technological innovations and detail the technological added value of the consortium collaboration. Focus on unique selling propositions that generate value.

Explain the interactions between the key technology-oriented players. Refer to the targeted technological architecture (cf. §2.1.2), and position the partners in that architecture while underlying their specific role, added value and relevance here.



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Explain the technological rationale behind the consortium composition:

- describe the core idea motivating the partners to collaborate and explain how this consortium helps them achieve their technological goals;
- describe what the key partners bring in, how their expertise is complementary, i.e. what makes them relevant partners.

This subsection should convince the evaluators that there is enough R&D competence in the consortium, that the consortium is appropriate and that value will be created from a technological point of view.

Both business and technological sleeping partners must be avoided.

<Text to be inserted here>



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### 3. Work description

#### 3.1. Project structure

#### (Recommended length: up to 3 pages)

Provide a global overview of the technical work to be performed and of the Work Breakdown Structure (work packages) envisaged towards it. Use diagrams where possible and do not hesitate to separate the hierarchical view (organisation of WPs and tasks in a tree) from the process view (e.g. interdependency between WPs, yearly processes, etc.).

Explain the interfaces and interactions between work packages, and between consortium members.

Justify how the project structure supports the project objectives.

Do not provide detailed Work Package and Task descriptions in the Project Outline. The detailed Work Package descriptions are only requested in the Full Project Proposal and will be fully discarded for the PO evaluation: where possible, try to avoid describing task contents in a PO and focus on how the WPs relate to each other.

This section should convince the reviewers that the project structure helps the consortium achieve its goals.

<Text to be inserted here>

#### 3.2. Main milestones

Present the project milestones in the following table. Milestones are control points in the project that help to chart progress. Milestones may correspond to the completion of a key deliverable, allowing the next phase of the work to begin. They may also be needed at intermediary points so that, if problems have arisen, corrective measures can be taken. A milestone may be a critical decision point in the project where, for example, the consortium must decide which of several technologies to adopt for further development. Major demonstrators should also be considered as project milestones.

It is recommended to consider no more than 6 milestones in a project (i.e. on average not more than a milestone every 6 months).

Milestone titles (descriptions) should be self-explanatory. For each milestone, indicate the Key Performance Indicator (KPI) that will be used to state its achievement, as well as its completion date.

This subsection should give a good overview of the different phases of the project.

< If relevant and needed, text to be inserted here>



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#### Exhaustive list of project milestones:

ID	Description	KPI	Completion month
<ms1></ms1>	<e.g. implementation="" of="" prototype<br="">v1&gt;</e.g.>	< e.g. demonstration module implementing 95% of the specifications integrated and running in the common framework >	<e.g. m24=""></e.g.>
<ms2></ms2>	<e.g. targeted="" use-case<br="">performance needs achieved&gt;</e.g.>	<e.g. 1="" 99%="" alarm="" and="" detecting="" false="" hour="" in="" intrusions="" less="" per="" rate="" success="" than=""></e.g.>	



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### 4. Rationale for public funding

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On the website you must fill in one section per country represented in the consortium. This section will indicate the national coordinator and detail the national rationale for funding. At the end of the national rationale for funding, the national coordinator has to indicate the national ICT clusters the project has contacted and intends to join (a clear status with regards to the cluster has to be indicated).

The national rationale for funding has four components:

- national gain: you have to explain the benefits for the participating countries (e.g. support to national strategies, standardisation, open source, knowledge dissemination, wellbeing improvement, impact on national productivity, etc.), how the country benefits from collaboration with other countries and the risk level of the investment (i.e. why is a public incentive preferred for such investments),
- return on investment (Rol): you have to explain how the money invested by both Public Authorities and companies is expected to generate value, revenue, jobs and/or economic growth, etc.,
- value creation of the national sub-consortium: how cross-fertilisation between the various participants is achieved;
- adequate balance between the national partners (e.g. ratio of effort as a percentage for academics, SMEs, etc.).

For each partner, in addition to contact details and a generic description (incl. type and size of the entity), two specific descriptions are requested:

- relevance of the partner within the project by describing its main role in the project and the main added value to the international consortium and vice versa;
- market access, i.e. how the partner intends to exploit the project results and how the market(s) will be accessed (exploitation prospects and capability); current main markets and main customers, as well as planned exploitation plans and strategies are welcome whenever doable.

It is <u>crucial</u> that <u>all</u> national coordinators get in touch with their national Public Authorities (PAs) to present them the project (idea, partnership, budget, etc.), checking funding opportunities and ensuring that the national consortium is eligible, even in countries that are neither part of the PPA (PENTA Public Authorities Committee) nor the EURIPIDAC (EURIPIDES Public Authorities Committee). Beware of eligibility issues at national level.

For PPA/EURIPIDAC countries, information on the contact persons is available on the PENTA-EURIPIDES public website (in section "Funding and Countries"). For the EUREKA countries that are neither member of the PPA nor EURIPIDAC, the contact persons are National Project Coordinators (NPCs); http://www.eurekanetwork.org/eureka-countries).

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### Annex A: Summary of costs & effort breakdown

<u>Auto-generated section: input to be provided only on the Project Zone website.</u> Do not edit or remove this box and do not provide any text within this annex in this chapter, but provide the requested information directly on the EURIPIDES<sup>2</sup>-PENTA Project Zone.

This annex will contain a comprehensive summary of the costs and effort, by providing 1) costs & effort per country per WP (with totals), and 2) costs & effort per partner type. This data is automatically computed based on the detailed figures of costs & effort provided online by each partner on the Community website: it is therefore crucial that all partners provide relevant input for both costs & effort, and do not leave blank fields, which would generate erroneous breakdowns.

Detailed costs & effort per partner are provided in the related country perspective section of §4.