

# HOW TO PARTICIPATE IN ARTEMIS-JU FUNDED RESEARCH PROJECTS



ARTEMIS-JU  
C A L L  
2 0 1 1

## About ARTEMIS

The world faces increasing challenges to sustainable industries and transport, health care, security and safety. Innovations in Embedded Systems – a specialist branch of ICT – are key to providing solutions to these growing societal issues. ARTEMIS aims to tackle the research and structural challenges faced by European industry by defining and implementing a coherent research agenda for embedded systems.

In recognition of the strategic importance of embedded systems the European Union launched the ARTEMIS Joint Technology Initiative (JTI) as a Joint Undertaking (JU), or public-private partnership, between:

- The European Commission
- 22 ARTEMIS Member States
- ARTEMIS Industry Association

The ARTEMIS Industry Association represents the research community including industry, universities and research institutes (200+ members). It continues the work of the European Technology Platform and is therefore responsible for the Strategic Research Agenda set up by this European Technology Platform in March 2006.

### Industry Driven ARTEMIS Funding Programme

The ARTEMIS Joint Undertaking adopts a commonly agreed research agenda closely following the recommendations of the Strategic Research Agenda developed by the ARTEMIS Technology Platform; nowadays embodied by the ARTEMIS Industry Association. A major ARTEMIS goal is to bring together European expertise in hardware, software and systems design for embedded systems across many application sectors. ARTEMIS Research therefore has a strong 'downstream' or close-to-market character. ARTEMIS classifies technological research for embedded systems into three domains:

- **Reference Designs and Architectures**
- **Seamless Connectivity and Middleware**
- **(System) Design Methods and Tools**

The domains, however, are so generic that, without establishing a link to specific areas of innovation, research results risk becoming fragmented collections of single-application-specific technology. To fight this tendency, a set of 8 ARTEMIS Sub-Programmes (ASP)' is identified by the members of the ARTEMIS Industry Association:

- ASP1** [Methods and processes for safety-relevant embedded systems](#)
- ASP2** [Embedded Systems for Healthcare systems](#)
- ASP3** [Embedded systems in Smart environments](#)
- ASP4** [Manufacturing and production automation](#)
- ASP5** [Computing platforms for embedded systems](#)
- ASP6** [ES for Security and Critical Infrastructures Protection](#)
- ASP7** [Embedded technology for sustainable urban life](#)
- ASP8** [Human-centred design of embedded systems](#)

The core will be an industry driven and co-funded programme for collaborative research based on this Strategic Research Agenda and implemented through open calls for proposals.

### Is ARTEMIS Joint Undertaking funded research for me?

If you are an organisation, that is 'affected' by Embedded Systems technology, either as a developer of embedded-systems-based products or by using them as an important part of your business processes, then the answer is quite probably 'yes'. All the more so if you dedicate part of your valuable resources to research or innovation. Collaboration with your partners in the product value chain, and even with your competitors on non-differentiating technologies, brings significant benefits in know-how and market positioning.

Indeed, early access to cutting-edge technology can bring major advantages in business efficiency and competitiveness. Innovation, even when

close to the market, feeds on new ideas and technologies brought to maturity through a combination of technical and scientific excellence and market acumen. It's a two-way street.

### *How do I get involved in an ARTEMIS Joint Undertaking project?*

You will need to share some of your know-how. Clear rules to protect your intellectual property are in place: you keep what you own. You need to believe enough in your idea to commit to doing the necessary work for the project: while you will benefit from collaborating with partners, they also will be relying on you – it's a fair trade.

There are a few necessary conditions, of course. ARTEMIS projects are international, requiring collaboration between companies or institutes in at least three of the 22 ARTEMIS countries:

Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Norway, Portugal, Romania, Slovenia, Spain, Sweden, the Netherlands, United Kingdom.

The process of entering into a collaborative R&D project is nowhere near as complicated as it is reputed to be. It is a relatively simple, four-step process (see box below).

- Step 1 – Define your project
- Step 2 – Find a consortium
- Step 3 – Submit the proposal
- Step 4 – Do it

#### **Step 1 - Define your project**

Getting a clear picture of what you want to do in a project is essential. It's a good idea to write down where your technology idea is now, where you want it to go, and how you want to get there (including what other pieces of know-how or technology you will need to do this). Develop a realistic idea of how much manpower and other

resources you will need to do this, and, as with any good project management plan, think about what can be done should something not quite work out right. ARTEMIS projects are close to the market, so project durations of two to three years are typical. A good way to capture this is a short presentation and a spread sheet for the resource planning. These documents can be used as a basis for discussion with potential partners, and for your contribution to the Project Outline document.

#### **Step 2 - Find a consortium**

There are basically four routes to this, in order of effectiveness:

- Via an 'inner circle' of existing partners from past projects
- The ARTEMIS Brokerage events organised by ARTEMIS Industry Association
- ARTEMIS Information and Networking days, and
- The ARTEMIS Internet Partner Search tools.

If you have ever been involved in European research, you probably already belong to an 'inner circle' and have a network. The most powerful networking tool by far is membership of ARTEMIS Industry Association. In addition to proposing the research agenda and work programme for the ARTEMIS Joint Undertaking, the members of the Association form an extensive network of 200+ partners across Europe. The annual 'ARTEMIS Brokerage' event is organised by the ARTEMIS Industry Association. This event brings together players from all over Europe to form consortia around the current strategic work plan. Participation speeds up your way to realise a project proposal. Important: Check the ARTEMIS website for the dates about the 'Information and Networking' days around the launch of the Call. These ARTEMIS information days will take place at various locations. Next to this and supportive to the events there are some useful 'Partner Search Tools' available on the web: [www.artemis.eu](http://www.artemis.eu), or via 'Ideal-IST' on [www.ideal-ist.net](http://www.ideal-ist.net).

### Step 3 - Submit the proposal

ARTEMIS project proposals follow a two-step process. Firstly, a (mandatory) Project Outline (PO) is submitted. Secondly, followed by a Full Project proposal (FPP).

**Your PO will be submitted to a small panel of experts**, who give feedback on the quality of the ideas and feasibility of the plan. An online Project Proposal Submission tool is available to help you do this. This is not a selection gate – the feedback on the mandatory PO is meant to help consortia make the best possible proposals. The deadline for the call 2011, is a month after the initial 'Call for Proposals' and is very strict.

**Contact the National Funding agencies**, in terms of local research priorities and other eligibility rules. Discuss the project ideas with your local authority to get their advice before proceeding further. It is advisable to get one of the partners in your country to be a 'local coordinator' to assure smooth discussions with the local funding authority. The full information and addresses for these are given in the Call documentation on the ARTEMIS website.

**The project will finally be evaluated on its Full Project Proposal (FPP)**. This is a detailed version of the PO and takes into account the feedback from the experts. Projects will be selected for

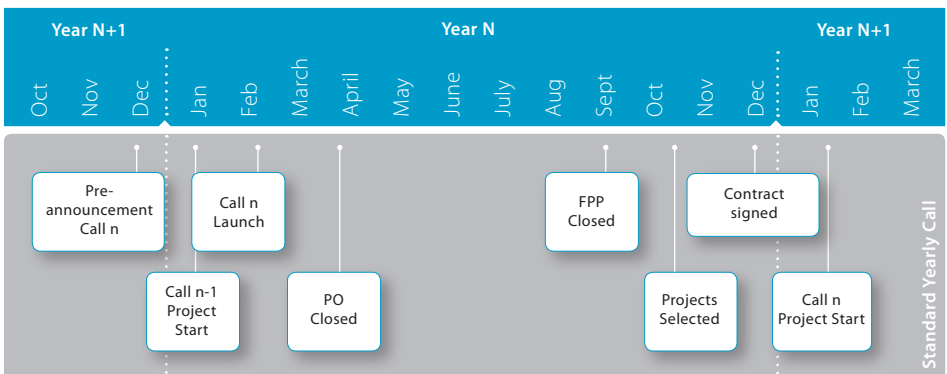
funding based on the quality of this document. The submission deadline is very strict, so take care not to wait until the last minute. The same online Project Proposal Submission tool is available. Plan to submit at least a week before the closing date, in case of any last-minute problems. Projects are evaluated by a team of experts.

**Funding for ARTEMIS Joint Undertaking projects follows a unique model.** Much of the funding is provided to the partners by their own government or regional agency, with whom a Grant Agreement (type of contract) is set up. The ARTEMIS Joint Undertaking also provides funding directly to the partners: 16.7% of their eligible costs. Which type of cost is eligible for funding is determined by the local regulations, so it is important that the partners in a particular country together understand their local requirements and rules.

### Step 4 - Do it

Once the contracts are signed, there remains only to execute the project according to the agreed plan. As with any collaboration, it is important that all partners do their best to deliver what was agreed to on time. Administration need not be a burden, either – it only takes a few minutes per week to document, for example, the manpower used in your project, but imagine what a complicated task this would be once several months have gone by ...

### ARTEMIS Joint Undertaking Annual Call schedule



### What does it cost?

Even though the spirit of collaborative research and innovation is more in terms of the benefits of the results than on the funding, understanding the financial side is also important. Because the funding provided by national authorities and the ARTEMIS Joint Undertaking (except in specific cases) will not cover all of the cost of the work, the biggest financial contribution by far is 'in kind' – the work you do to deliver the promised results that is not covered by the public funding you receive.

The cost of running the ARTEMIS Joint Undertaking, which enables such collaborative projects to be set up and run efficiently and allows the public money to be given to the participants for their work, is for the largest part paid for by ARTEMIS Industry Association – the rest coming from the European Commission. ARTEMISIA members, therefore, pay for all the facilities needed to give all project participants access to the public funding – they are asked to contribute 1.5% of their 'eligible costs' in projects to ARTEMIS Industry Association. It is also in the spirit of collaboration that ARTEMIS encourages all ARTEMIS partners in projects to share the responsibility for the operational costs of running the office of the ARTEMIS Joint Undertaking. Of course, it is very unfair if some

partners pay for the benefits of the ARTEMIS Joint Undertaking programme and others just tag along.

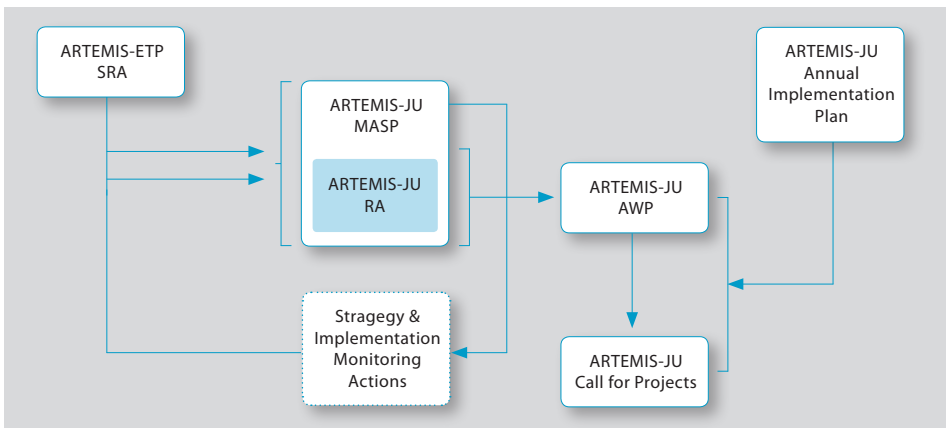
All ARTEMIS project partners are welcome to join ARTEMIS Industry Association or, at least, sign its 'Declaration of Acceptance' so that all partners bear an equal and fair share of the costs. That way, the ARTEMIS Joint Undertaking programme can continue keeping European R&D on Embedded Systems at the front of the world stage.

To enable the ARTEMISIA Industry Association Office to contact you for membership, or for signing the Declaration of Acceptance for non-members, you are kindly asked to tick 'I Agree' in the online project proposal upload tool.

### Useful resources

The ARTEMIS Joint Undertaking work programme is divided into eight sub-programmes that embrace both technological and application-oriented development, each with its own unique balance. Details of the strategy for these are given in the Multi Annual Strategic Plan (MASP) and Research Agenda (RA) documents, while the specific focus for a given call is documented in the Annual Work Programme. All of these documents, and more, are available via the websites of the ARTEMIS Industry Association.

### The ARTEMIS Joint Undertaking Work Plan and related documents



# Calendar for the Call 2011

*14 & 15 December 2010:* Brokerage Event organised by ARTEMIS Industry Association

*January-Mid February 2011:* Information and Networking events around Europe

*28 February 2011:* Call opens

*1 March 2011:* ARTEMIS Project Proposers' Information Day, Nürnberg

*31 March 2011:* Deadline for Project Outline (17h00:00 Brussels time)  
(Feedback on PO – May).

*1 September 2011:* Deadline for Full Project Proposals (17h00:00 Brussels time)  
Projects can typically start as early as January 2012.

The calendar of events is updated frequently. Check it on [www.artemis.eu](http://www.artemis.eu).

## ARTEMIS Joint Undertaking

*Visiting Address:*

Covent Garden building  
Place Charles Rogier / Karel Rogierplein, 16  
1000 Brussels Belgium

*From 17 January 2011 the new visiting address will be:*

White Atrium  
Avenue de la Toison d'Or / 56-60 Guldenvlieslaan  
1060 Bruxelles-Brussel  
Belgium

*For postal instructions see:*

[www.artemis-ju.eu](http://www.artemis-ju.eu)

[enquiry@artemis-ju.europa.eu](mailto:enquiry@artemis-ju.europa.eu)

[www.artemis-ju.eu](http://www.artemis-ju.eu)

Advanced Research & Technology for Embedded Intelligence and Systems

