



# D06.2

# **Project dissemination plan**

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|----------------------------|--|
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| Abstract: | The following document gives an overview of the dissemination activities planned for the DRAGON project. It describes the dissemination strategy as well as the actual events and activities carried out by the partners. |
|-----------|---|
| Keywords: | Dissemination, Strategy, Activities   |



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### 1 Introduction

The purpose of dissemination is to make DRAGON a successful and sustainable project by raising the awareness and publicity of the DRAGON project as well as its results. In this context the target groups for external dissemination activities are on the one hand the general public and on the other hand potential business partners as well as specific scientific experts. Further target audiences are public institutions like governmental and European audiences.

In order to reach the particular awareness level intended, the partners have to work continuously in the field of dissemination and public relation.

The purpose of the DRAGON project dissemination plan is to collect information on the dissemination activities already completed or planned during the 36 months run time of the DRAGON project. It describes the dissemination channels to be used and the dissemination material to be produced and indicates their approximate schedule.

The dissemination plan of the DRAGON project has been arranged into a logical sequence of various activities, which will be described in the following "Dissemination strategy" section, whereas the real planned activities will follow later in the second section "Planned dissemination of knowledge". Additional activities have to be expected when the partners have prepared more detailed plans for their work. Invitations to contribute to both publications and conferences are expected as the project receives more attention throughout Europe and the rest of the world. These activities will be reported during the periodic reporting after the end of each project period.

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### 2 Dissemination strategy

The dissemination strategy of the DRAGON project consists of three consecutive phases which require different methods and activities to be initiated in order to be able to achieve the goals:

#### 1. Awareness-oriented phase

The goal of the first phase is to raise awareness about the project and its objectives. This involves the setting up of the basic marketing materials and awareness-raising presentations at different related events. The main activities of this phase are:

- Setting up a common project design, such as a DRAGON logo, templates for documents and presentations.
- Creating and maintaining the project website, which will describe the challenges and the goals of the project and which will introduce the project members.
- Designing the project information materials (such as a leaflet and an introductory presentation), which can be distributed later on without investing greater efforts.
- Giving introductory presentations at conferences and workshops about the challenges and goals of DRAGON in order to raise awareness among the scientific and industrial stakeholders and to establish the basic brand name of DRAGON.

#### 2. Result-oriented phase

The second phase aims to promote the results of the project, in order to allow potential interested parties to get to know the achievements and the related benefits of the DRAGON project. This will be done by addressing stakeholders in the areas of radio technology and chip production and take the following activities in account:

- Display and promote public deliverables and news for viewing and downloading on the project website in order to show the liveliness and progress of the project and to keep interested parties up-to-date.
- Presentations at national, European and international conferences and workshops introducing the findings of the DRAGON project. These presentations will still be research-oriented.
- High-quality papers will be submitted to scientific and industry conferences, transactions and journals.

#### 3. Exploitation-oriented phase

The third dissemination aspect is targeted at potential clients of the DRAGON technology. The activities of this phase include:

- Exploitation-oriented upgrade of the project website, including optimisation for search engines and optional registration for specific keywords.
- Individualised demonstrations at interested stakeholders during the negotiation of business projects.
- Finally, a follow-up-project from the DRAGON results at an industrial research level could be possible.

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### 3 Planned dissemination of knowledge

The Dissemination plan is part of Work Package 06, "Project Management and Dissemination". This work package foresees the following tasks:

#### Dissemination:

This task involves the supply of structures and processes as well as templates for presentations and publications and other dissemination activities. The purpose is to coordinate and plan the dissemination activities on consortium and partner level because one of the goals of the DRAGON project is to widely disseminate the results at different levels. The dissemination activities ensure that the public will be aware of the project, interested parties will be able to learn about the project and have access to up-to-date information.

#### • IPR and exploitation framework:

Intellectual Property Rights and Exploitation Framework will be realized by the establishment of rules for the use of knowledge and its distribution.

During the DRAGON project life-time, the project partners will promote and encourage research on the DRAGON topic, targeting European and international companies and research centres, as well as create interest in the general public. The dissemination activities will be ongoing during the entire project duration. Accordingly, the dissemination plan will have to be adapted and updated several times.

An overview table presented later in the report summarises all planned dissemination activities, that have been carried out or which are currently planned to take place in the future. This list could be "extended" during the project lifetime.

### 3.1 Contribution of each partner

Within the project, dissemination activities will be divided under two categories, which reflect the difference between activities based on possible benefits. The first category covers those public exploitation and activities which are not interested in commercial revenue, but instead focused on social issues. The second category covers business activities with clear commercial motives.

All key-persons involved in DRAGON have a long track record of contributing to scientific publications targeting the global scientific community. This tradition will be continued to promote both the results and the project itself.

**Project e-platform and electronic material:** Public results, news and events related to the project will be presented on the public homepage <a href="http://www.dragon-project.eu">http://www.dragon-project.eu</a> maintained by the coordinator providing access to the project results at three levels:

- Public web site containing open information, presentations and open results
- Restricted containing information like deliverables and presentations for project reviews (access only to project members and EC reviewers and/or jointly agreed additional companies not in the project), and
- Confidential containing all partial and final results, working documents, presentations and articles

**Conferences and Publications:** Research results will be submitted to scientific conferences:

- IEEE International Solid-State Circuits Conference (ISSCC),
- European Solid-State Circuits Conference (ESSCIRC),

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- IEEE Symposium on VLSI circuits,
- IEEE Custom Integrated Circuits Conference (CICC),
- IEEE Radio Frequency Integrated Circuits Symposium (RFIC),
- IEEE/MTT-S International Microwave Symposium,
- European Microwave Integrated Circuits Conference (EuMIC),
- IEEE International Symposium on Circuits and Systems (ISCAS),
- Design Automation & Test conference (DATE)

And to potential others as well as to research journals (see further below).

Demonstration of the project results will be organised at relevant events to present the concrete achievements of the project.

**Open workshops:** Dedicated workshops will be organised at the European level to support dissemination of specific project results to a broader group of researchers, designers and managers. Focused workshops for all potential stakeholders will be organised (possibly collocated with existing events of broader scope). KUL is going to disseminate the project results in Advances in Analog Circuit Design (AACD) as well as in workshops at the IEEE International Microwave Symposium and in workshops at the IEEE Radio Frequency Integrated Circuits Symposium. EAB aims at distributing the results at GigaHertz, a national Swedish workshop.

**Academic cooperation:** The academic partners partake in a number of exchange programs with other universities and research institutions where the project and its results will be presented and discussed. Such activities not only provide a venue for dissemination but also for cross fertilization as results are discussed with leading scientists from all over the world.

Publications: Research results will be submitted for publications in leading periodicals like

- IEEE Journal of Solid-State Circuits,
- IEEE Transactions on Microwave Theory and Techniques,
- IEEE Transactions on Circuits and Systems I & II,
- IEEE Electronics Letters.
- IEEE Transactions on Signal Processing

**Incorporation in ongoing dissemination activities:** The partners will incorporate information about the project in other dissemination and marketing activities in related areas.

**International fairs:** Will be used to demonstrate prototypes and intermediate results and to cultivate new contacts. IMEC plans to participate in the SDR forum exhibition.

**Inspire new research:** The experience of the participants is that research of this level will uncover new research topics. Such topics will be discussed during project meetings to decide whether to incorporate it in the project, initiate new cooperations or pursue it individually.

**Internal dissemination:** The results of the project are foreseen to impact many business areas at the industrial partners. Project internal dissemination activities aim to maximise the spread and impact of the project within the participating organisations.

**Planned courses:** TUGraz and KUL plan to integrate project outcomes into courses. TUGraz will offer an "Advanced signal processing seminar on switched PAs' and KUL will provide DRAGON outcomes in their course H0528A. At Lund university new results will be included as topics in advanced level EE and international master's courses.

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### 3.2 Exploitation activities

As follows, an overview of the main exploitation activities in both the science and commercial sector for each partner is provided.

#### TEC:

The DRAGON project will reinforce and extend Technikon's knowledge in the definition of use cases and the elicitation of requirements. Experience gained will be funneled into our industrial services on requirements engineering. As an emerging SME, the reputation gained from the project will positively influence our future acquisition activities. We provide workflow based management support systems for cooperative research efforts at the national and European level.

#### EAB:

The theoretical and experimental efforts in DRAGON are directly addressing challenges foreseen by industry. This exploration of a new architectures and corresponding building blocks will be an important contributor to the current LTE R&D activity within Ericsson. By working with relevant top-rank partners and universities, both commercial and technical opportunities will get the best possible focus.

#### IFAT.

All integrated circuits developed by IFAT will be brought to market by the worldwide marketing and sales organization of the parent organization Infineon Technologies AG. The group within IFAT, which is involved in the DRAGON project, is directly linked to the wireless communications product division of Infineon Technologies AG. For this reason, this division will be responsible for the exploitation of the increased knowledge and the realized test circuits.

#### LTH:

The DRAGON project will enable Lund University to keep its strong position in research on radio frequency and mixed-signal integrated circuits for wireless applications. The research results will be presented at leading international conferences and journals, and advanced level courses at the university will be updated to include the latest research results. The quality of the education of both master and PhD students will therefore benefit from the project. Access to well-educated engineers and researchers in RF and mixed-signal IC design is crucial to the continued success of European telecommunication industry.

#### **KUL**:

The results obtained by KUL within DRAGON will mainly consist of innovative circuit architectures designed, simulated, implemented on silicon and fully investigated by measurements. The measurements enable a complete comprehension, characterization, validation and proof-of-concept of the design. The exploitation of the designs consists of publications in international journals and conferences and in advanced workshops, whose visibility and importance will be increased by the fact that they will deal with the whole process of chip design, from the idea to the verification of specifications by measurements, and will therefore be helpful for future commercial applications of innovative ideas. The designed chips will also be part of several PhDs, and will therefore be published within the doctoral theses of the involved research assistants of KUL. The design methodology and measurement results will also be used in several Master and Graduate courses on analog and RF IC design.

#### IMEC:

IMEC's main method of exploitation of the DRAGON project is the inclusion of the results in its IP portfolio. IMEC is one of the few research institutes in the world with proven experience on bringing together top-tier industry partners for cooperation into a shared research program. IMEC has been very successful in deploying this model of shared research, where

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each industrial partner joins the program on a bilateral basis, with clearly defined technical scope and deliverables, allowing the partner to tune the bilateral project to some of its industrial needs. The industrial partner gets early access to strategic results, and benefits from a shared-research leveraging effect in terms of pricing, information, cross-fertilization and time-to-market. IMEC is also investing in the exploitation of its IP towards the industrial partners of the consortium.

IMEC is a not-for-profit organization. As part of its mission, it creates spin-offs or licenses its technology to industrial partners, in which some results of DRAGON may be used.

#### TUGRAZ:

Knowledge is the core business of Graz University of Technology (TUGraz). Its knowledge management strategy comprises processes for the creation, appropriation, compilation, transformation, dissemination and exploitation of knowledge. These processes belong either to the domain of research (both discipline-oriented and application-driven research, including occasional development and testing services) or education (from undergraduate through graduate and post-graduate students to life-long learning for professionals). The results of the project will strengthen the position of TUGraz in leading research on digitally enhanced mixed-signal systems and they will add to its IP portfolio where TUGraz has a leading position among all Austrian universities. The gained knowledge is expected to result in key contributions to new signal processing architectures and algorithms that will be published and presented in leading journals and conferences. The implementation and prototype verification of the developed signal processing architectures and algorithms will help to increase the visibility of TUGraz to different research communities. Students at TUGraz will directly benefit from the latest research results, as they will be included in graduate courses. Finally, the knowledge built up from the current project results will be invaluable in the preparation of research project proposals for the acquisition of new grants from private and public partners.

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### 3.3 Description of planned dissemination activities

The dissemination activities of the DRAGON consortium that are planned until now are collected below.

### 3.3.1 Active or passive participation in conferences and workshops

The participation in conferences and workshops is considered active if the DRAGON project partner is in the role of a speaker, a presenter, a moderator or an organizer.

| Full name of the conference (abbreviation if applicable)           | Date          | Location<br>(city,<br>country) | Type and size of the audience    | Topic and goal of the event    | Relevance to DRAGON, (partners involved)  |
|--|---------------|--------------------------------|----------------------------------|--------------------------------|---|
| Radio Frequency Integrated<br>Circuits Conference (RFIC 2010)      | 22-25.05.2010 | Anaheim,<br>USA                | International,<br>N.A            | RF Integrated Circuits         | Presentation of an IC related to the design targeted for DRAGON (IMEC), Conference participation (KUL)  |
| International Symposium on<br>Circuits and Systems (ISCAS)<br>2010 | 30.05.2010    | Paris,<br>France               | International,<br>1300 attendees | Circuits and Systems<br>Design | Conference participation, review committee member (TUGraz), Conference participation (KUL)  |
| European Solid-State Circuits<br>Conference (ESSCIRC) 2010         | 13-17.09.2010 | Seville,<br>Spain              | International,<br>3000 attendees | Integrated circuit design      | Conference participation, technical committee member; paper presentation; very relevant conference for DRAGON (TUGraz, EAB, LU, KUL) IFAT: Steering Committee, Workshops & Forums organizer |
| Lund Circuit Design Workshop                                       | 22.09.2010    | Lund,<br>Sweden                | International,<br>100 attendees  | Integrated circuit design      | Conference participation, technical committee member (EAB), Conference participation (KUL)  |
| Austrian Workshop on<br>Microelectronics (Austrochip)              | 06.10.2010    | Villach,<br>Austria            | International,<br>100 attendees  | Integrated circuit design      | Connecting with IC researchers especially in Austria (TUGraz), Conference participation (KUL)   |
| NORCHIP 2010   | 20.11.2010    | Tampere,<br>Finland            | International,<br>100            | Research in IC design          | Connecting with IC researchers, especially in Scandinavia (LU),   |

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|  |               |                              | participants                           |  | Conference participation (KUL)  |
|--|---------------|------------------------------|--|--|---|
| European Microwave Week  | 10/2010       | Paris,<br>France             | International,<br>2000<br>participants | State-of-the art on microwave engineering  | Presentation of research paper on PA design based on DRAGON research results. (KUL)   |
| Asia Pacific Microwave<br>Conference (APMC)                        | 12/2010       | Yokohama,<br>JPN             | International,<br>1000<br>participants | State-of-the art on RF and microwave IC design   | Presentation of research paper on PA design, based on DRAGON research results (KUL)   |
| CICC   | 2010          | TBD                          | TBD                                    | State-of-the art on custom IC design   | Conference participation, technical committee member  |
| International Solid-State Circuits<br>Conference (ISSCC)           | 20-24.02.2011 | San<br>Francisco,<br>USA     | International,<br>5000 attendees       | Topic: Adaptive Circuits and Systems Goal: Foremost global forum for presentation of advances in solid- state circuits and systems-on-a-chip | Conference participation,technical committee member; connecting with IC researchers; the ISSCC is the world premier conference in IC design (IMEC, EAB, LU, KUL) IFAT: Subcommittee Chair, Workshops & Forums organizer |
| Radio Frequency Integrated<br>Circuits Conference (RFIC 2011)      | 05/2011       | Baltimore,<br>USA            | International                          | RF Integrated Circuits   | Propose a workshop on Digital Rx architectures as targeted for DRAGON (IMEC), Conference participation, technical committee member  |
| International Symposium on<br>Circuits and Systems (ISCAS)<br>2011 | 15.05.2011    | Rio de<br>Janeiro,<br>Brazil | International,<br>1300 attendees       | Circuits and Systems<br>Design   | Conference participation, review committee member (TUGraz), Conference participation (KUL)  |
| European Solid-State Circuits<br>Conference (ESSCIRC) 2011         | 12-16.09.2011 | Helsinki,<br>Finland         | International,<br>3000 attendees       | Wireless and Wireline<br>Communication<br>Circuits   | Conference participation, technical committee member (EAB, KUL) IFAT: Steering Committee, Workshops & Forums organizer  |



| Asian Solid-State Circuits<br>Conference (ASSCC 2011)         | 11/2011    | TBD, Asia                | International/A sian                   | Solid-State Integrated circuits  | Technical Program Committee member (IMEC), Conference participation (KUL)   |
|---|------------|--------------------------|--|--|---|
| AACD Workshops  | 2011       | TBD                      | TBD                                    | State-of-the art on analog IC design                                   | Conference participation (KUL), technical committee member  |
| Asia Pacific Microwave<br>Conference (APMC)                   | 2011       | TBD                      | International,<br>1000<br>participants | State-of-the art on RF and microwave IC design                         | Conference participation (KUL)  |
| CICC  | 2011       | TBD                      | TBD                                    | State-of-the art on custom IC design                                   | Conference participation, technical committee member  |
| European Microwave Week                                       | 2011       | TBD                      | International,<br>2000<br>participants | State-of-the art on microwave engineering                              | Presentation of research paper on PA design based on DRAGON research results. (KUL)   |
| Future Network & Mobile Summit 2011                           | 2011       | TBD                      | International                          | Topic: Cognitive and<br>Reconfigurable<br>Systems Wireless<br>Networks | TBD (IFAT), Conference participation (KUL)  |
| International Microwave<br>Symposium (IMS)                    | 2011       | TBD                      | International,<br>TBD                  | State-of-the art on<br>Microwave IC design                             | Conference participation, technical committee member  |
| RWS (Radio Wireless<br>Symposium)                             | 2011       | TBD                      | TBD                                    | State-of-the art on RF IC design                                       | Conference participation, technical committee member  |
| International Symposium on Circuits and Systems (ISCAS)       | 20.05.2012 | Incheon,<br>South Korea  | International,<br>1300 attendees       | Circuits and Systems<br>Design   | Conference participation, review committee member (TUGraz), Conference participation (KUL)                                  |
| International Solid-State Circuits<br>Conference (ISSCC) 2012 | 02/2012    | San<br>Francisco,<br>USA | International,<br>5000 attendees       | Integrated circuit design  | Conference participation, technical committee member, with submission of the second DRAGON prototype (IFAT, IMEC, EAB, KUL) |



| Asia Pacific Microwave<br>Conference (APMC)                   | 2012                          | TBD                                     | International,<br>1000<br>participants | State-of-the art on RF and microwave IC design      | Presentation of research paper on PA design, based on DRAGON research results (KUL)   |
|---|-------------------------------|---|--|---|---|
| European Solid-State Circuits<br>Conference (ESSCIRC) 2012    | 2012                          | TBD                                     | International,<br>3000 attendees       | Integrated circuit design                           | Conference participation, technical committee member (IFAT, EAB, KUL)   |
| VLSI Symposium  | 06/2010<br>06/2011<br>06/2012 | TBD, Japan<br>TBD, Japan<br>Hawaii, USA | International,<br>N.A                  | State-of-the art on IC design                       | Conference participation with<br>submission of the first DRAGON<br>prototype (fallback of ISSCC 2011<br>submission) (IMEC, KUL) |
| CICC  | 2012                          | San Jose,<br>USA                        | International,<br>TBD                  | State-of-the art on custom IC design                | TBD (KUL)   |
| European Microwave Week                                       | 2012                          | TBD                                     | International,<br>2000<br>participants | State-of-the art on microwave engineering           | Presentation of research paper on PA design based on DRAGON research results. (KUL)   |
| Radio Frequency Integrated<br>Circuits Conference (RFIC 2012) | 2012                          | TBD                                     | International,<br>TBD                  | State-of-the art on<br>Radio Frequency IC<br>design | TBD (KUL)   |
| International Microwave<br>Symposium (IMS)                    | 2012                          | TBD                                     | International,<br>TBD                  | State-of-the art on<br>Microwave IC design          | TBD (KUL)   |
| AACD Workshops  | 2012                          | TBD                                     | TBD                                    | State-of-the art on analog IC design                | TBD (KUL)   |
| RWS (Radio Wireless<br>Symposium)                             | 2012                          | TBD                                     | TBD                                    | State-of-the art on RF IC design                    | TBD (KUL)   |

 Table 1: Summary of actively participated conferences and workshops



### 3.3.2 Scientific articles and publications

| Author(s), Date   | Title   | Journal title, volume, issue, page numbers               | Type (international/national) | Topic, Connection to DRAGON (Partners involved)   |
|---|---|--|-------------------------------|---|
| L. Bos, C. Armiento, A. Geis, G. Vandersteen, Y. Rolain, L. Fanucci, G. van der Plas, J. Ryckaert | Downconverted Multirate Cascaded RF Bandpass ΔΣ Converter | Submitted to Transactions on Circuits and Systems (TCAS) | International                 | Presentation of the system strategy for the DRAGON second prototype (high level article) (IMEC) |
| TBD   | TBD   | Journal of Solid-State Circuits (JSSC)                   | International                 | Journal paper on the first DRAGON prototype (IMEC)  |
| TBD   | TBD   | Journal of Solid-State Circuits (JSSC)                   | International                 | Journal paper on the Second DRAGON prototype  |

Table 2: Summary of scientific articles and publications

## 3.3.3 Courses, talks organized

| Partners involved | Date, Location (city, country) | Course title, content                                 | Type and size of the audience  |  |
|-------------------|--------------------------------|---|--|--|
| Lund              | 20.02.2011                     | Tutorial presentation, "Design of integrated LC VCOs" | Tutorial within the ISSCC conference, some 50-100 attendees at the tutorial are expected |  |

Table 3: Summary of courses and talks



#### 3.3.4 Relevant Websites

| Website                             | Description of the main DRAGON related information   | Partners involved |
|-------------------------------------|--|-------------------|
| www.dragon-project.eu               | The official web-site of the DRAGON project  | TEC, all partners |
| www.technikon.com                   | Official website of partner Technikon; contains a short project description and link to the official DRAGON homepage                     | TEC               |
| www.ericsson.com                    | Official website of partner Ericsson   | EAB               |
| www.infineon.at<br>www.infineon.com | Infineon Technologies Austria AG Infineon Technologies AG  | IFAT              |
| www.lu.se/lund-university           | Lund University  | LU                |
| www.kuleuven.be                     | Official website of partner Katholieke Universiteit Leuven; contains a short project description   | KUL               |
| www.imec.be                         | Official website of partner IMEC   | IMEC              |
| www.tugraz.at                       | Official website of partner Graz University of Technology; contains a short project description and link to the official DRAGON homepage | TUGraz            |

Table 4: Summary of websites

### 3.3.4.1 DRAGON Project Website

A first preliminary version of the DRAGON project website containing all basic information was already available in M01. However the fully official website was being prepared in parallel and officially launched end of M03.

The official project website provides an overview on the project and up-to-date information on its activities and results, as well as contact details, partner information and information on events.

The website is set up as a content management system (Joomla!). The usage of a readily available open source solution, which also includes a number of tools for online WYSIWYG editing, and the adaptation of it to the project needs, helped to keep the development costs low. The website can be viewed with a standard web browser and will be kept alive throughout the project period and a few years afterwards.

The DRAGON project website is available on the following link:

#### http://www.dragon-project.eu/.

The project website serves as the most versatile information and communication tool, because on the one side it provides the opportunity to provide information for a worldwide audience and on the other side enables a working platform for the project team members.

Beside the public area there is a password-protected area, reserved for project participants, in order to share project-internal data. Only registered partners are able to enter it and can benefit from the options offered there. These include for example a calendar for appointments and meetings, a forum for information exchange concerning special topics, a Wiki function to post and to deal with some articles, mailing lists for reaching special mailing groups as well as archives of the mailing lists.

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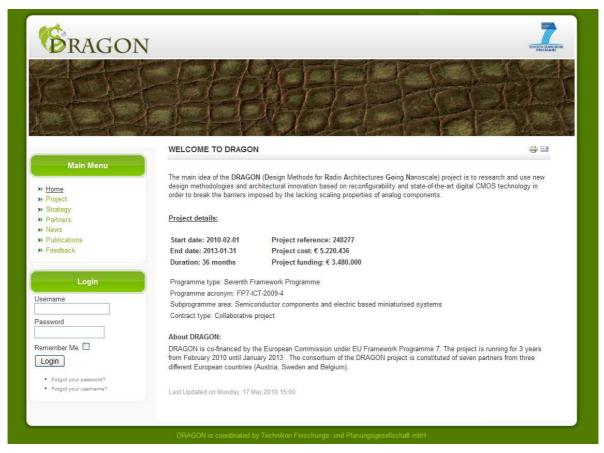


Figure 1: Website of the DRAGON project

### 3.3.5 Press releases, newsletter

| Title   | Publication details   | Partners involved |
|---|---|-------------------|
| "Durchbruch im Design<br>von Mobilfunksystemen im<br>Nano-Bereich verbessert<br>den Lebensalltag" | Distribution via  www.pressetext.at in May 2010 in relation to a successful project start; The press release is also available on the MEMFIS project website (in English and in German) | TEC, all partners |

Table 5: Summary of Press releases

### 3.3.6 Other dissemination activities

### 3.3.6.1 The DRAGON logo

In order to improve the visibility of the DRAGON project a logo was designed. The logo is used on all internal templates as well as on all kinds of external dissemination tools.



Figure 2: DRAGON logo

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### 3.3.6.2 The DRAGON Folder

The official DRAGON folder is a four-page informative and graphically appealing A4 flyer, highlighting the objectives and the work programme of DRAGON. It can be used and has already been used for distribution at conferences or certain other events in order to provide further visibility to the project. An electronic version of the leaflet is available on the DRAGON website.







Figure 3: DRAGON folder

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# 4 Cooperation with external organisations

In addition to the various dissemination activities reported above, the DRAGON consortium is in close cooperation with external organisations. The involved partners and their existing and planned activities are listed below and extra planned cooperations with external organisations can be added during the project lifetime.

| Actual/planned date | Type, content of the cooperation | Cooperation partners | Countries addressed | DRAGON partners involved |
|---------------------|----------------------------------|----------------------|---------------------|--------------------------|
| TBD                 | TBD                              | TBD                  | TBD                 | TBD                      |

Table 6: Cooperation with external organisations

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# 5 Participation in projects

### 5.1 Participation in international projects

In order to promote knowledge sharing and gathering among the Consortium partners and various organisations within a similar research sphere, project partners are participating in several other complementary projects, which are listed below.

| Project name | Topic and description of the project   | Project partner                 |  |  |
|--------------|--|---------------------------------|--|--|
| ITEA/MEDEA + |  |                                 |  |  |
| -            | -  | -                               |  |  |
| ICT FP7      |  |                                 |  |  |
| MULTI-BASE   | The MULTI-BASE project investigates scalable and flexible digital hardware for wireless communication systems. The work on digital front-ends relates to DRAGON. | EAB, LUND, IMEC, IFAT, TEC, KUL |  |  |
| IST FP6      |  |                                 |  |  |
| -            | -  | -                               |  |  |
| Other        |  |                                 |  |  |
| -            | -  | -                               |  |  |

Table 7: Participation in international projects

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## 5.2 Participation in national projects

In addition to the projects that run on the European level, the partners are also active in national projects.

| Project name                                       | Topic and description of the project  | Project partner                |  |  |
|--|---|--------------------------------|--|--|
| Sweden   |   |                                |  |  |
| System Design on Silicon (SoS)                     | SoS is a VINNOVA industrial excellent center performing research on system design on silicon, targeting telecommunication in particular.  | EAB, LTH, IFAT                 |  |  |
| Mobile Heights                                     | Mobile Heights is a mobile communications cluster initiative in Southern Sweden. It brings together world-class organizations from the industry and academia as well as institutions from the public sector.    | EAB, LUND                      |  |  |
| WWW – wireless with wires                          | IC design with nanowires fabricated in III-V processes  | LUND                           |  |  |
| Wireless Communications for Ultra Portable Devices | IC radio design with extremely low power consumption  | LUND                           |  |  |
| Belgium  |   |                                |  |  |
| ESSENCES   | <u>Effective Spectrum Sensing ENabling</u><br><u>Communication and Economical Stimulation</u>   | IMEC, KUL, VUB                 |  |  |
| Austria  |   |                                |  |  |
| DigTX  | The DigTX project will explore new circuits and architectures enabling a single chip implementation of radio transceivers capable of a dramatically reduced power consumption compared to the state-of-the-art. | IFAT, KUL, DICE<br>Gmbh        |  |  |
| GreenPArk  | Efficient Power Amplifiers through Digital Signal Processing  | TUGraz                         |  |  |
| SoftGNSS2  | Development of a software-defined GPS receiver with a dual-frequency approach for accuracy enhancement.   | TUGraz, Teleconsult<br>Austria |  |  |

Table 8: Participation in national projects

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# **6 List of Abbreviations**

| DRAGON | Design Methods for Radio Architectures GOing Nanoscale |
|--------|--|
| EAB    | Ericsson AB  |
| EC     | European Commission                                    |
| EU     | European Union   |
| ICT    | Information and Communication Technology               |
| IFAT   | Infineon Technologies Austria AG                       |
| IMEC   | Interuniversitair Microelectronica Centrum VZW         |
| KUL    | Katholieke Universiteit Leuven                         |
| LTH    | Lund University  |
| SME    | Small and Medium-Sized Enterprise                      |
| STREP  | Small or medium-scale focused research project         |
| TBD    | To be determined                                       |
| TEC    | Technikon Forschungsgesellschaft mbH                   |
| TUGraz | Graz University of Technology                          |
| WiTEC  | Women in Science, Engineering and Technology           |
| WP     | Work Package   |

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