



Codes And Methods Improvements for VVER comprehensive safety assessment

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D8.1 - The CAMIVVER Dissemination and exploitation plan

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Version 1 – 23/02/2021



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N°: D02-DTIPD-F-21-0027 Rev: A	C0 - Unrestricted	Page 1 of 20
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Summary

This document is the deliverable “D8.1 – The CAMIVVER Dissemination and exploitation plan” of the European project “CAMIVVER – Codes And Methods Improvements for VVER comprehensive safety assessment” (project reference: 945081).

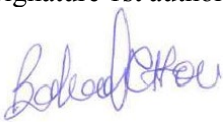


This Dissemination, Communication and Exploitation (DC&E) strategy plan has been developed within the Task 8.1 “Development of the CAMIVVER dissemination and exploitation plan” by Framatome and the University of Pisa (UNIFI). In order to improve this plan during the timeframe of the project, it will be submitted to the CAMIVVER Advisory Board and it will be updated throughout the project, based on the evaluation of its impacts.

Starting from the determination of the CAMIVVER project needs, the goals of the DC&E are identified as well as how to achieve them.

The CAMIVVER DC&E strategy plan include:

- A detailed planning of all communication actions, their goals and timing.
- Key messages and defined target audiences.
- An event and publications management plan.
- Identification of DC&E key performance indicators for the goals to be reached, as the number of international journal papers, the number of website views or the engagement on social media.

Approval

Version	First Author	WP leader	Project Coordinator
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N°: D02-DTIPD-F-21-0027 Rev: A	C0 - Unrestricted	Page 2 of 20
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Table of content

1.	Introduction	5
2.	Context and objectives of the project	6
3.	CAMIVVER brand	7
3.1.	Visual identity	7
3.2.	Project presentation	7
3.3.	Additional brand material	7
3.4.	Obligations about CAMIVVER communication	8
4.	Communication, Dissemination and Exploitation strategy	10
4.1.	Objectives and main lines of the plan	10
4.2.	Target audiences	10
4.3.	Advisory board	10
4.4.	Key messages	11
4.5.	Communication Tools and Actions	13
4.5.1.	Public website	13
4.5.2.	LinkedIn	14
4.5.3.	E-newsletters	14
4.5.4.	Press release	14
4.5.5.	Participation to events/conferences and scientific publications	15
4.6.	Other Dissemination Actions.....	15
4.6.1.	Guidance.....	15
4.6.2.	Final workshop.....	16
4.7.	Exploitation Actions.....	16
4.8.	Key Performance Indicators.....	16
5.	Conclusions	18

N°: D02-DTIPD-F-21-0027 Rev: A		C0 - Unrestricted	Page 3 of 20
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Tables

Table 1 – CAMIVVER target audiences	10
Table 2 - CAMIVVER Advisory Board	11
Table 3 – CAMIVVER Key messages	12
Table 4 - Communication Tools.....	13
Table 5 - Official channels set up by the EU institutions.....	14
Table 6 – Publication in 2021 already accepted.....	15
Table 7 - Key Performance Indicators	17

Figures

Figure 1 – The CAMIVVER Logo	7
Figure 2 – Template for CAMIVVER presentation.....	7
Figure 3 - CAMIVVER Leaflet.....	8
Figure 4 - Linkedin account screenshot.....	14

N°: D02-DTIPD-F-21-0027 Rev: A		C0 - Unrestricted	Page 4 of 20
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1. Introduction

This document is the deliverable “D8.1 – The CAMIVVER Dissemination and exploitation plan” of the European project “CAMIVVER – Codes And Methods Improvements for VVER comprehensive safety assessment” (project reference: 945081).

This Dissemination, Communication and Exploitation (DC&E) strategy plan has been developed by Framatome and the University of Pisa (UNIPi) within the Task 8.1 “Development of the CAMIVVER dissemination and exploitation plan”.

Communication and dissemination activities have become a top priority in European collaborative research projects funded under the EU’s Horizon 2020 programme.

The main purpose of this deliverable is to describe the Dissemination, Communication and Exploitation (DC&E) strategy of CAMIVVER project, and to give more visibility to the entire process.

After having presented the context of the project (§2), the CAMIVVER brand is presented (§3) before describing the key messages, the defined stakeholders, the communication objectives and key performance indicators relevant for them (§4).

The scope of this document is to list all actions taken (or foreseen) inside and outside the project, in terms of knowledge dissemination, internal/external communication and exploitation of the project results. A continuous monitoring will be done during the project.

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2. Context and objectives of the project

The main aim of the H2020 CAMIVVER project is to develop and improve codes and methods for VVER comprehensive assessment. In fact, VVER reactors constitute a significant and dynamic part of the European energy market and the safe Long Term Operation (LTO) of these reactors (maintenance, refueling, safety-upgrade, revamping) is based on the industrial use of neutronic and thermal-hydraulic codes and methods that allow studying the behavior of the plant in normal and accidental conditions.

Such code development is strongly required for the following reasons:

- 1) Current codes and methods used for VVER safety assessment are subjected to international export controls from outside EU. Export controls from major countries have increased in the last years, threatening the EU sovereignty and security in terms of energy supply.
- 2) A new generation of innovative codes and methods are being developed within Europe with the aim of improving 3D-multiphysics modelling and uncertainty quantification capabilities. These codes and methods are worth being transferred from lab to industry as they will substantially improve the physics comprehension of PWR and VVER.
- 3) European codes and methods development for VVER safety assessment will open the VVER market to the European nuclear industry and will support a free and fair competition on this market.

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3. CAMIVVER brand

3.1. Visual identity

The first action in the communication task has been to develop the project's visual identity. For doing that, a logo was designed during the first month of the project in order to include it since the beginning of the project in all documentation (paper or electronic), and promotional materials produced.

The logo guarantees the identity of the project. Several logo versions were designed and examined by the project partners. Among them, the CAMIVVER logo (Figure 1) has been selected. The "C" character recalls the typical hexagonal geometry of a VVER fuel assembly.



Figure 1 – The CAMIVVER Logo

3.2. Project presentation

A PowerPoint presentation template (see Figure 2) was designed and shared among the CAMIVVER partners within the first two months of the project, in order to continue building the CAMIVVER brand.

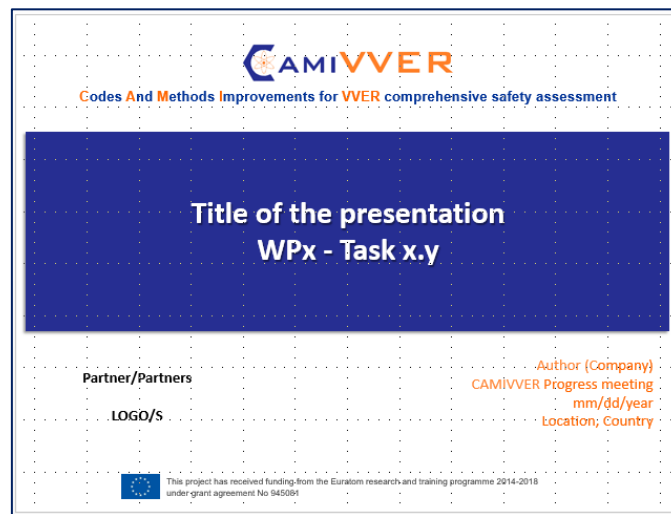


Figure 2 – Template for CAMIVVER presentation

3.3. Additional brand material

Additional material has been generated during the first three months of the project in order to build the CAMIVVER brand:

- **Flyer:** a flyer including the main objectives, keywords and consortium members of the project has been prepared. It will be distributed at workshops and events organized by CAMIVVER, as well as in external events. It will be available for download on the public website of the project (see Figure 3).

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- **Poster/Roll-up:** a roll-up/poster including the main objectives, keywords and consortium members of the project has been prepared for presenting the project. An updated version will be designed to support the dissemination of the outputs generated in CAMIVVER project. It will be distributed to the project partners, and available for download on the public website of the project.

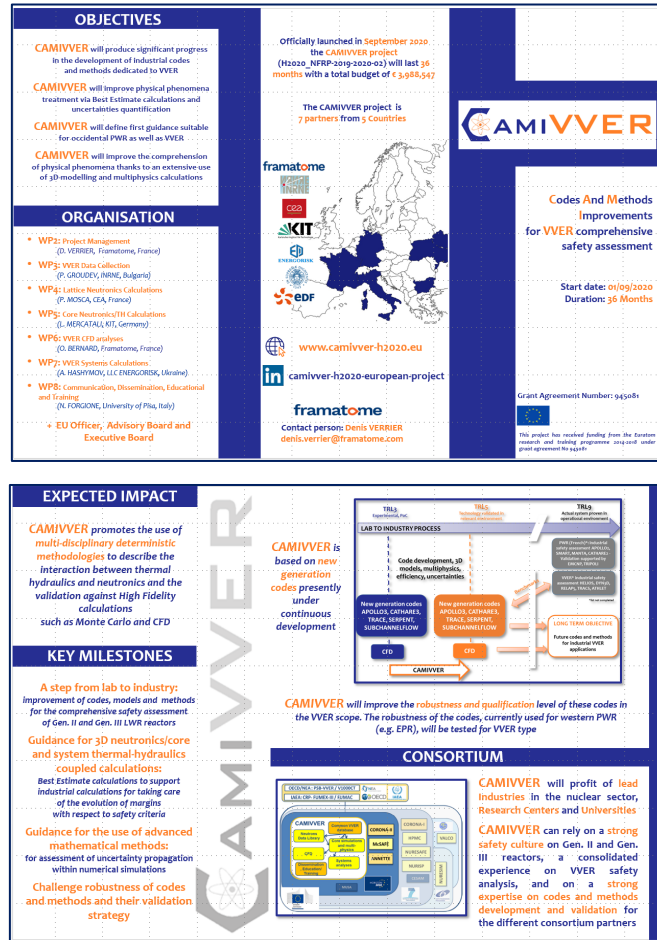


Figure 3 - CAMIVVER Leaflet

3.4. Obligations about CAMIVVER communication

Several obligations have to be followed concerning CAMIVVER communication actions.

All materials, including scientific papers and publications produced by the CAMIVVER project, must contain:

- The CAMIVVER grant agreement number: No 945081
- The mandatory EU emblem with the following statement: *This project has received funding from the Euratom research and training programme 2014-2018 under grant agreement No 945081*



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In case of submission of articles to peer-reviewed journals, in open access and to be included in public European repositories, or communications at conferences on the studies performed within the CAMIVVER project, special acknowledgements to the European Commission for the financial support have to be acknowledged. The following sentence has to be used: *This research is part of the CAMIVVER project, which has received funding from the Euratom research and training programme 2014-2018 under Grant Agreement No 945081.*

For presentations, it is strongly recommended to use the CAMIVVER presentation template (§3.2) available to all the partners in the project IExtranet with restricted access (<https://iextranet-p2.oodrive.com/workspace/jyfgnp/>). If for some reasons this is not possible, the minimum requirements are to use the CAMIVVER logo, the European emblem and the acknowledgement sentence indicated above.

N°: D02-DTIPD-F-21-0027 Rev: A	C0 - Unrestricted	Page 9 of 20
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4. Communication, Dissemination and Exploitation strategy

4.1. Objectives and main lines of the plan

Among the objectives of the CAMIVVER project special attention is dedicated to share and exploit the technical outcomes. The CD&E activities have been organized in order to reach as many stakeholders as possible with the technical results obtained. Communication actions are also dedicated to the presentation to the general public of the project results concerning codes improvement for VVER and their relevance for the safety of nuclear energy, but also PWR, comprehensive safety assessment.

The CAMIVVER results are expected to be communicated and disseminated since their outcomes are relevant for several communities: neutronic and thermal-hydraulic codes developers, VVER and PWR industries, regulators, safety authorities and academic institutions. Particular attention will be also paid to report to other Bodies closely involved in nuclear safety, like OECD/NEA and IAEA.

In order to facilitate such transfer towards the young researchers, a final workshop will be organized. Invited talk to University seminars may be organized to reach Masters/PhD students. These events will be the occasions of sharing the improvements coming from the CAMIVVER project, on codes development and validation for VVER and PWR designs.

In summary, the objectives of the CAMIVVER CD&E plan are:

- To promote the project's activities, objectives and the uptake of its results for PWR and VVER reactors.
- To engage in a two-way dialogue with stakeholders and civil society, including external organizations such as the OECD/NEA, IAEA, SNETP, etc.
- To disseminate knowledge on VVER to the project's community and stakeholders including PhD students, post-docs, designers, etc.

4.2. Target audiences

The CAMIVVER CD&E has been prepared to address a target audience. A first list identified is shown in Table 1.

Table 1 – CAMIVVER target audiences

Target Audiences
Nuclear research and scientific community
European and international VVER stakeholders, such as IAEA and SNETP
Nuclear industry, designers
Universities and higher education, PhD students, young researchers
National and European policymakers
General public

4.3. Advisory board

The CAMIVVER Advisory Board members have been selected to cover the target audiences. A first list has been identified as indicated in Table 2. The Advisory Board composition is intended to be representative of various stakeholder communities interested in the CAMIVVER results. Additional policy-makers and stakeholders will also be invited at a later stage.

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Table 2 - CAMIVVER Advisory Board

Organization	Potential Participants	Added value in AB
ENERGOATOM	Y. Zinchenko	VVER biggest operator in Europe. Reviewing and advises are expected for all the project, and especially for the guidance.
IRSN	F. Dubois	French safety authority. Reviewing and advises are expected for all the project, and especially for the guidance.
MIT	E. Baglietto	CFD models expert. Specific advises are expected for WP6.
KOZLODUY NPP	E. Stefanov K. Rashkov	VVER European operator. Many data used in the proposal will be related to Kozloduy reactors. Kozloduy NPP help will be useful to help interpret these data.
KAPERNICUS AB	Peter Hessling	Uncertainty propagation expert. Specific advises are expected for Task 6.3.
ENEN	L. Cizelj J. Starflinger G. Pavel	ENEN is an international nonprofit organization established under the Belgian law. Its main purpose is the preservation and the further development of expertise in the nuclear fields by higher education and training in Europe. Cooperation with ENEN will help CAMIVVER to education and training activities.
IAEA	M. Gajdos	IAEA is the world's central intergovernmental forum for scientific and technical co-operation in the nuclear field. Reviewing and advises are expected for the overall project, and especially for the guidance. IAEA is an international agency that has sponsored several previous works that CAMIVVER is related to.

4.4. Key messages

In order to inform the target audiences about the CAMIVVER project objectives and expected outcomes, a set of key messages has been initially developed (Table 3). The list of key messages may be integrated during the project evolution.

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Table 3 – CAMIVVER Key messages

TARGET AUDIENCE	MESSAGE
Nuclear research and scientific community	<p>CAMIVVER makes the link between research on codes used for safety analysis at laboratory level and applications at industrial level.</p> <p>CAMIVVER will work on codes, models and methods to be used for Gen. II and Gen. III PWRs comprehensive safety assessment with the aim of making improvement toward an industrial application of new generation codes presently under development.</p>
European and international VVER stakeholders, such as IAEA and SNETP	<p>CAMIVVER will allow establishing guidance for developing 3D neutronic/thermal-hydraulic coupled multi-physics reference and for use of advanced mathematical methods in the framework of uncertainty propagation within numerical simulations for VVER and PWR reactor types.</p> <p>CAMIVVER will demonstrate in the framework of the H2020 some advanced approaches for propagating uncertainties.</p>
Nuclear industry, designers	<p>CAMIVVER will take benefit from VVER context to challenge the robustness of codes and methods used for LWR and their validation strategy.</p> <p>One important effect of LTO is the evolution of margins with respect to safety criteria. CAMIVVER will enable better assessment of these margins (taking advantage of more precise calculation schemes and comprehensive approaches) and therefore better identification of design evolutions that could be necessary for LTO of GEN II and III nuclear fleets.</p> <p>CAMIVVER will demonstrate to all European safety authorities and European VVER operators the capabilities of European codes to provide comprehensive safety assessment.</p> <p>CAMIVVER will produce significant progress in the development of industrial codes and methods.</p>
Universities and higher education, PhD students, young researchers	<p>CAMIVVER will enhance the knowledge of MSc and PhD students, post-docs, on the safety issues related to the development of codes and methods for Gen. II and Gen. III comprehensive safety assessment.</p>
European policymakers	<p>One important effect of LTO is the evolution of margins with respect to safety criteria. CAMIVVER will enable better assessment of these margins (taking advantage of more precise calculation schemes and comprehensive approaches) and therefore better identification of design evolutions that could be necessary for LTO of PWR and VVER GEN II and III nuclear fleets.</p> <p>CAMIVVER will develop Codes and Methods totally free from outside-EU export control, that will enable the European nuclear industry to help VVER utilities without export control issues.</p>
General public	<p>CAMIVVER will help on improving the nuclear energy acceptability in countries in which PWR and VVER nuclear reactors are under operation and construction.</p> <p>CAMIVVER will help on threatening EU sovereignty and security in terms of energy supply.</p>

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4.5. Communication Tools and Actions

In order to share the communication on the CAMIVVER projects several tools have been proposed as indicated in Table 4. More details are available in the following sections.

Table 4 - Communication Tools

Tool	Purpose	Audience	When
Visual identity, logo and templates	To ensure the project's visibility among all relevant stakeholders.	All target groups	T0+3
Communication support materials	Poster and a leaflet/factsheet presenting the project released at conferences, workshops and online.	All target groups	T0+3
Public website	Main channel for information on CAMIVVER, aiming to reach all audiences.	All target groups	T0+6
Social media	A LinkedIn account can be designed maximizing undertaken actions and engaging in a two-way dialogue. Posts will target several audiences.	All target groups	T0 - T0+36
E-newsletter	Annual external e-newsletter issued to report on latest activities and news.	All target groups	T0+12, T0+24, T0+36
Press release	Specialized media will be targeted and press releases will be distributed when appropriate to promote the project's objectives, special events and results.	All target groups	T0 - T0+36
Event participation	Speaking or showcasing CAMIVVER and its results with a stand or communication materials at specific events will be an important activity in the project for communication.	All target groups	T0 - T0+36

4.5.1. Public website

The CAMIVVER website will be created as part of WP2 activities (Task 2.3 at horizon T0+6) in collaboration with WP8. The website is the main channel for information on CAMIVVER, aiming to reach all audiences. For this reason, it will be continuously updated and will evolve with the lifecycle of the project.

It will be organized with a public area to serve as a communication tool for sharing information and results of the CAMIVVER project. A part restricted to the partners will be used in addition to the IExtranet created at the beginning of the project to facilitate the exchanges among the project team members. The public

N°: D02-DTIPD-F-21-0027 Rev: A	C0 - Unrestricted	Page 13 of 20
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website, under construction and presented soon in a dedicated report, will act as the main channel for news and updates with the aim to address the key questions that external visitors are expected to have. It will include information on:

- Project technical activities;
- Project outcomes;
- Project partners.

4.5.2. LinkedIn

A LinkedIn account was created for CAMIVVER project (see Figure 4) to promote its events, workshop and public deliverables. Information about the articles and news about the project and its results will be published here: <https://www.linkedin.com/company/camivver-h2020-european-project/>

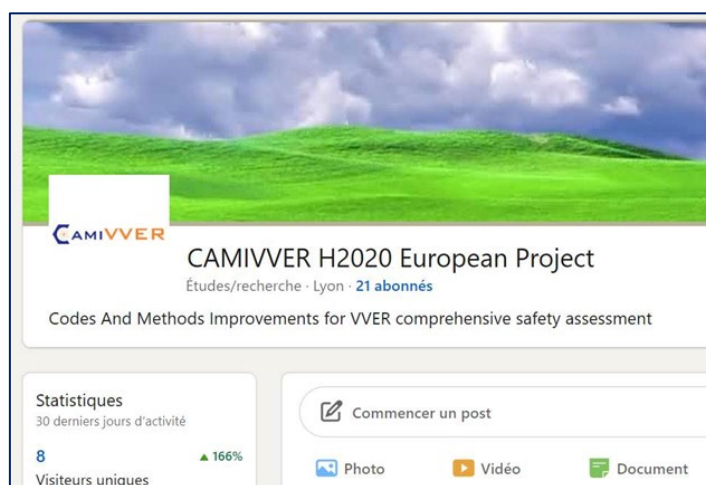


Figure 4 - LinkedIn account screenshot

4.5.3. E-newsletters

A total of 3 electronic newsletters are expected to be distributed to the CAMIVVER partners and to the stakeholder's community to inform them on the latest achievements of the project, outputs and relevant events, conferences or workshops. Newsletters will be published on a yearly basis.

The results and statistics will be drawn for each newsletter. Conclusions and possible areas of improvement will be also indicated, with the aim to help optimize future mailings.

The first newsletter is planned for September-October 2021, depending on the progress of the project.

4.5.4. Press release

Specialized media will be targeted and press releases will be distributed when appropriate, to promote the project's objectives and results. The official channels set up by the EU institutions may be used if relevant to disseminate the project's results. A previous list is indicated in Table 5.

Table 5 - Official channels set up by the EU institutions

Magazines	Research*eu results magazine	www.cordis.europa.eu/research-eu/home_fr.html
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N°: D02-DTIPD-F-21-0027 Rev: A	C0 - Unrestricted	Page 14 of 20
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Portals	Horizon – The EU Research and Innovation Magazine	https://horizon-magazine.eu/
	CORDIS	www.cordis.europa.eu/home_fr.html
	Horizon 2020 newsroom	www.ec.europa.eu/programmes/horizon2020/en/newsroom

4.5.5. Participation to events/conferences and scientific publications

Presenting the project's results at events is a key action in CAMIVVER to maximize its impact and reaching key stakeholders.

As much as possible during this period related to COVID19 emergency, the project consortium will attend events that are relevant to the topic and through which the target groups can be reached. In order to maximize the sharing of the information, the most appropriate events over a 12-month cycle will be identified and, if possible, a project partner will be allocated as directly responsible for making contacts with the event organizers and ensuring the project is properly represented.

An event plan will be created and shared among the partners on the IExtranet. The WP8 leader will take care of taking up to date.

In order to share the CAMIVVER results, a number of scientific publications will be prepared and submitted to selected journals.

The project will also follow the open access policy of Horizon 2020 by providing online access to scientific information that is free of charge to the end-user and that is reusable. In the context of this project, scientific information refers to peer-reviewed scientific research articles (published in scholarly journals), articles, conference papers and research data. As such, the project will combine different measures to foster open access to knowledge as much as possible.

Since the start of the project, one publication has already been accepted to be published in 2021 as indicated in Table 6.

Table 6 – Publication in 2021 already accepted

AUTHORS	TITLE	REFERENCE
D. Verrier, et al.	Codes and Methods Improvements for VVER comprehensive safety assessment: the CAMIVVER H2020 project	Proceeding to the 28th International Conference on Nuclear Engineering ICONE28, that will be held virtually on August 4 – 6, 2021.

4.6. Other Dissemination Actions

4.6.1. Guidance

Final guidance for VVER and more in general Gen. II and Gen. III LWR safety studies will be prepared for summarizing and making available to the audiences the CAMIVVER outcomes dedicated to each WP activities. Some possible items that have been just identified in the Task 8.4 description of work are:

N°: D02-DTIPD-F-21-0027 Rev: A	C0 - Unrestricted	Page 15 of 20
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- VVER assembly industrial calculation schemes;
- Advantages of full core neutronic thermal-hydraulic coupling;
- Uncertainties quantification;
- System-code 3D modelling in vessel;
- etc.

More items will be discussed during the project and integrated in the work of Task 8.4 devoted to develop this point. The guidance will be made freely available by the project webpage and communication about its release will be done via the different CAMIVVER communication channels.

This guidance will also be useful for education and training of young researchers and MSc/PhD students.

4.6.2. Final workshop

To improve and harmonize the diffusion of the scientific knowledge and results, a final workshop will be organized at the end of the project to disseminate the results and the lessons learned. It will be held at KIT and will present the main results of the CAMIVVER project. The workshop structure will be finalized during the Project.

4.7. Exploitation Actions

One of the main exploitation results of the CAMIVVER project is to support activities concerning education and training in the area of development, improvement, verification and validation of codes and methods for VVER and PWR nuclear reactors applications. The overall objective of this action is to strengthen the links among the CAMIVVER members and the international community enhancing the dissemination action. A mobility exchange programme has been defined and it is detailed in the “Manual for CAMIVVER Mobility Programme”.

Another aspect that will allow exploiting the CAMIVVER results concerns the robustness of codes and methods used in LWR. The application carried out within the CAMIVVER consortium activities, the benchmarks and the sensitivity analyses proposed will allow taking benefit from VVER context to challenge the robustness of codes and methods used by industries for PWR analyses.

The activities carried out within CAMIVVER project based on new generation codes will allow developing and qualifying tools, systems and practices for the reduction of vulnerabilities of operating plants under accident conditions in particular for foreseen LTO regimes.

CAMIVVER will improve the robustness and qualification level of these codes in the VVER scope but maximizing the impact also on Generation II and III EU PWR nuclear reactors fleet applications.

It will provide training for young engineering working in the nuclear field on VVER concepts and behaviors under normal and accidental conditions.

CAMIVVER will demonstrate to all European safety authorities and European VVER operators the capabilities of European codes to provide comprehensive safety assessment and to support the development and the qualification of VVER fuel and more generally to provide the required elements for a VVER safety analysis report (SAR).

4.8. Key Performance Indicators

Some key performance indicators have been defined for measuring the achievement of the objectives of the present CD&E (Table 7). They will be monitored during the project advancements.

N°: D02-DTIPD-F-21-0027 Rev: A		C0 - Unrestricted	Page 16 of 20
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Table 7 - Key Performance Indicators

Channels	KPIs	Status
Website	• Number of page views	http://camivver-h2020.eu/ (<i>coming soon</i>)
LinkedIn	• Number of views/interactions • Number of followers • Number of articles/posts	https://www.linkedin.com/company/camivver-h2020-european-project/
Newsletters	• Number of subscribers	It will be make available for downloading by the website (1 st newsletter at T0+12)
Media	• Number of articles published about CAMIVVER	Information will be make available in the website
CAMIVVER workshop	• Number of attendees	A dedicated page in the website will be created
Events	• Number of conferences where CAMIVVER was presented	Information will be make available in the website
Publications	• Number of papers published	Information will be make available in the website
EU channels	• Number of mentions • Number of articles published about CAMIVVER	Information will be make available in the website

N°: D02-DTIPD-F-21-0027 Rev: A	C0 - Unrestricted	Page 17 of 20
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5. Conclusions

This CAMIVVER communication, dissemination and exploitation action plan will be updated regularly. Its content and structure may evolve if necessary. Its main objective is to maximize the impact of the project and boost awareness on the results and milestones to be accomplished during the project.

N°: D02-DTIPD-F-21-0027 Rev: A	C0 - Unrestricted	Page 18 of 20
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