

Horizon 2020

**General Introduction & Structure
Funding Mechanisms & Partner Search
Proposal Preparation & Support**

**7th International Conference
on Sustainable Waste Management
HERAKLION, 27 June 2019 - Session XII**



Pierantonios Papazoglou

BSc, MEng, NEBOSH, CSTC, Voc.Trainer, IAEM
Scientific Coordinator - The Cyprus Institute
Energy-Environment-Water Research Centre



- H2020 “*Briefly*”...

Structure, Programmes, Types of Actions..!

- Consortium... “*Mechanics*”
Partner Search overview



- Proposal Support... “*Prescreening*”... Hints-&-Tips

Cor



proach

■ Professional (past) Experience:



- 2000-2005. Laboratory Researcher (Aegean & Stevenage)
- 2007-2008. Environment Research Officer (Univ. Nicosia)
- 2008-2017. National Contact Point & Programme Committee Member FP7 – H2020 (Research Promotion Foundation)
- “Marie Curie” | EURAXESS | “Climate Action & Environment” |

■ Cyl – EEWR

– EMME-CARE.

**EMME-CARE**EASTERN MEDITERRANEAN
MIDDLE EAST – CLIMATE &
ATMOSPHERE RESEARCH CENTRE

- Portfolio, Programme, and Project Management
- Identification of (funding) Opportunities and Networking
- Proposal Writing Support
- Mentoring/ Training/ Capacity Building for European Grants
- MSCA-IF/ ERC/ EURAXESS/ Environment/ Space/ Security/ et.c.



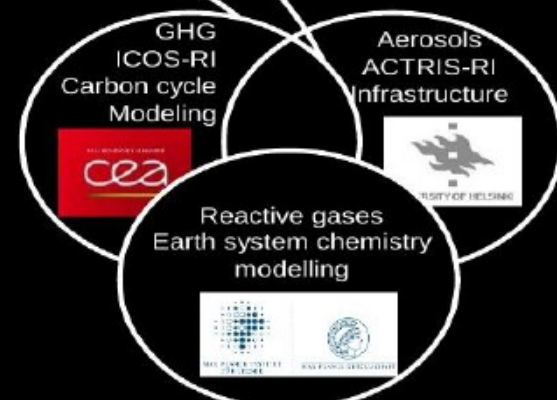
The... "EMME-CARE" Project...!



Atmosphere & Climate Division

**7-year project
Starting in 2019
> 30M€**

Teaming



**Mediterranean & Middle East
Research Centres**



EMME-CARE
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ATMOSPHERE RESEARCH CENTRE

New Centre of Excellence

<http://emme-care.cyi.ac.cy/>



Public stakeholders



**THE CYPRUS
INSTITUTE**



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EEWRC

Horizon 2020... *briefly:*

Structure

Programmes

Types of Actions



H2020... At a Glance...

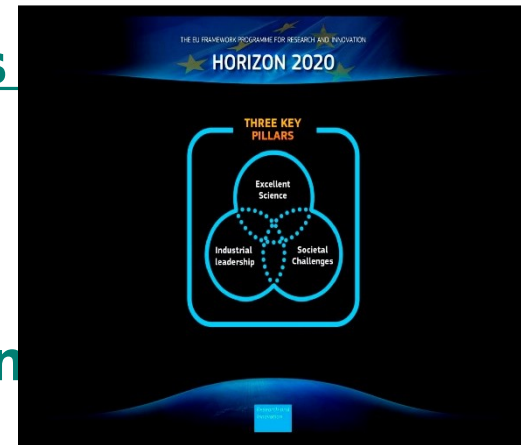
1. EU's largest legal instrument for funding research and innovation in Europe (proposed by the Commission and adopted by the Council and Parliament)

2. ≈ € 80 billion for the period 2014 - 2020

3. Programmes address Societal Challenges

(Environment, Health, Energy,...), Industrial Leadership and Competitiveness (ICT, Space, Nano,...), as well as Excellence in world leading scientists, future & emerging technologies and training & career development through mobility

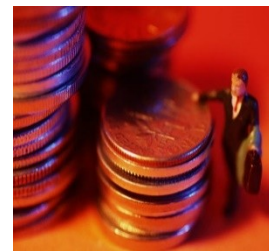
4. Projects are funded through competitive Calls-for-Proposals, stemming from 2-year Work Programmes, and must have a “European Dimension” and “Impact”



www.shutterstock.com - 93154870

"Truths" to...Realize Before Starting..!

- The Proposal is **NOT a Paper/ Article for a Journal...**
- It is a *science-&-innovation pitch* of your research...
→ **so as to receive funding...!**
- EC has been doing this for quite a few FPs... There are **particular policy and mandate backgrounds**. There's a **particular language-jargon, structure, process...**
- The philosophy is "**Competitive Calls**" for Proposals...



"Truths" to...Realize Before Starting..!



- You need **EUROPEAN ADDED VALUE**....!
- Problem/ Issue attempted to be solved or the technology/ innovation attempted to be developed **cannot be of local or regional character but rather of pan-European**... scale/complexity of the “solutions” for EU and not “just X-Country”.
- **Transnationality, replicability and transferability** should be the keywords for both the “challenges”/ “problems” addressed, and the “solutions” proposed.
- not just through “transfer of knowledge” or “networking” or “EU-wide dissemination”, but rather it should be clearly shown in the proposal how the issue adds a “wider interest” and how the solution proposes wide applicability.



2014 Main Report of DG RTD:

[https://ec.europa.eu/research/iscp/pdf/publications/Final_European_Added_Value_inco_MainReport.p](https://ec.europa.eu/research/iscp/pdf/publications/Final_European_Added_Value_inco_MainReport.pdf)

H2020... “Knowledge-Check” Exercise**Before... “Glancing”
further...!**

- In...three (3) minutes:
- Let’s think quickly together about what you already know of H2020:
 - How many / Which are the H2020 Pillars...
 - How many / Which Programmes per Pillar do you know...
 - How many / Which Types of Actions do you know...



Pillar 1. Excellent science

European Research Council (ERC)

Frontier research by the best individual teams

Future and Emerging Technologies

Collaborative research to open new fields of innovation

Marie Skłodowska-Curie Actions (MSCA)

Opportunities for training and career development

Research infrastructures (including e-infrastructure)

Ensuring access to world-class facilities



Pillar 2. Industrial leadership

Leadership in enabling and industrial technologies (LEITs)

(ICT, nanotechnologies, materials, biotechnology, manufacturing, space)

Access to risk finance

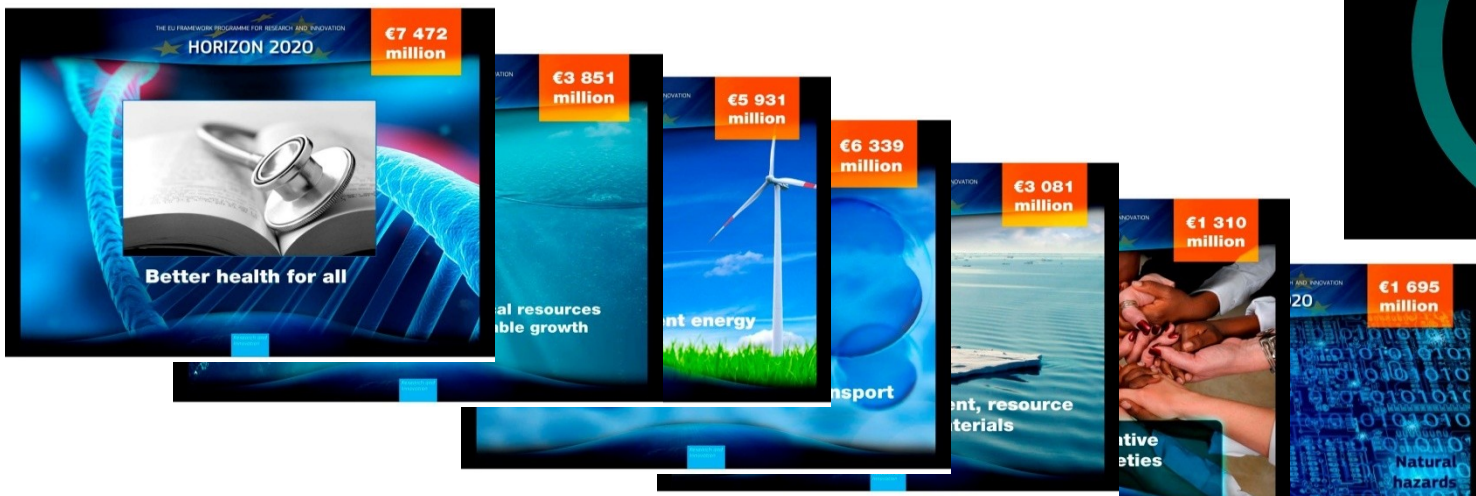
Leveraging private finance and venture capital for research and innovation

Innovation in SMEs

Fostering all forms of innovation in all types of SMEs



Pillar 3. Societal challenges



**Tackling
societal
challenges
for a better
society**

1. Health, demographic change and wellbeing
2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy
3. Secure, clean and efficient energy
4. Smart, green and integrated transport
5. Climate action, Environment, resource efficiency and raw materials
6. Inclusive, innovative and reflective societies
7. Secure societies

Excellence Science

- **European Research Council**
Frontier research by the best individual teams (ERA)
- **Future and Emerging Technologies**
Collaborative research to open new fields of innovation
- **Marie Skłodowska Curie Actions**
Opportunities for training and career development
- **Research Infrastructures (Including e-infrastructure)**
Ensuring access to world-class facilities

Industrial Leadership

Leadership in enabling and industrial technologies

- **ICT**
- **Nanotechnologies materials, biotechnologies, manufacturing**
- **Space**
- **Access to risk finance**
Leveraging private finance and venture capital for research and innovation
- **Innovation in SMEs**
Fostering all forms of innovation in all types of SMEs

Societal Challenge

- **Health, demographic change and wellbeing**
- **Food security, sustainable agriculture, marine and maritime research, and the bio-economy**
- **Secure, clean and efficient energy**
- **Smart, green and integrated transport**
- **Climate action, resource efficiency and raw materials**
- **Europe in a changing world – inclusive, innovative, reflective societies**
- **Secure Societies**

European Institute of Innovation and Technologies (EIT)

Spreading Excellence and Widening Participation

Science with and for society

Joint Research Center (JRC)

Euratom

Fast Track to Innovation

Source: APRE.it

- One project one funding rate
Maximum of 100% of the total eligible costs
(except for innovation actions, where a 70% maximum will apply for profit making entities)
- Three Evaluation Criteria
Excellence
Impact
Implementation
- International Cooperation facilitated



Who Can Participate?

□ Basically everybody - **but always check Call for Proposals**

□ In Europe and the rest of the world
(legal entities and natural persons)



Who Can Participate and Receive Funding?

All participants from:

- Member States
 - Associated Countries
(eg. Iceland, Norway, Israel, Serbia)
 - Participants from Third Countries *where identified in the Calls for Proposals*
- 
- A conceptual image showing a hand holding a glowing blue globe. Surrounding the globe are several small, semi-transparent icons: a person with an umbrella, a group of people, a globe, a green square, and a solar panel array. The background is dark with some light streaks, suggesting a digital or futuristic theme.

High Income Countries are generally not eligible



Basic...

Rules...

Minimum Conditions

- Standard collaborative actions

At least **three legal entities** each established in a different Member State or an Associated Country;

- SME instrument:

One SME established in a Member State or in an Associated Country.

Additional Conditions

Always check the **Work Programme!**

- ✓ There might be specific conditions for participation

TYPES OF ACTIONS				Source: CY-RPF
TYPE OF ACTION	DESCRIPTION OF ACTION	MINIMUM CONDITIONS	FUNDING RATE	
Research and Innovation Actions	Main Activity Type: Research & Development (e.g. basic and applied research, technology development and integration, testing and validation)	≥ 3 legal entities from 3 MS/AC	100%	
Innovation Actions	Main Activity Type: Innovation Activities close to the market (e.g. prototyping, testing, demonstrating etc)	≥ 3 legal entities from 3 MS/AC	70% - except 100% for non-profit legal entities	
Coordination & Support Actions	Main Activity Type: Accompanying Measures, Dissemination, Networking & Coordination or Support Services	1 legal entity from MS/AC	100%	
SME Instrument	Phase 1: Concept & Feasibility Assessment (e.g. risk assessment, market study, IPR etc) Phase 2: Innovation Activities (e.g. demonstration, testing, prototyping, piloting etc) Phase 3: Commercialisation and access to the financial facilities supported under H2020	1 SME from MS/AC	Phase 1 lump sum 50,000 € Phase 2 70%, except 100% where the research component is strongly present Phase 3 no direct funding	
COFUND Actions	ERA-NET: Implementation of the co-funded joint Call for Proposals to fund trans-national research and innovation projects Pre-Commercial Procurement (PCP): Steer development to public sector needs Public Procurement of Innovative Solutions (PPI): First buyer for innovative solutions Marie Skłodowska - Curie Actions (MSCA): Co-funding new or existing Programmes to open up to, and provide research training	ERA-NET ≥ 3 legal entities from MS/AC PCP & PPI ≥ 3 legal entities from MS/AC & 2 ≥ public procurers from MS/AC 1 legal entity from MS/AC	ERA-NET 33% PCP 70% PPI 20% MSCA 50%	
Prizes	Inducement Prize: Induce future activities Recognition Prize: Recognise past achievements	1 legal entity	n/a	

“HERAKLION-2019 7th International Conference on Sustainable Waste Management”

Consortium “*Mechanics*”...



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Consortia...Partners...

- To achieve **European Added Value...**
- to achieve **Transnationality, replicability and transferability...you**
- Good **PARTNERS** and **Consortium...!**



Good characteristics in

- Are they reliable?
- Are they suitable for the purposes of the Project?
- Is their Organisation able to provide the necessary resources?
- Do they bring added value to the Consortium?
- Do they contribute to gender balance?



Characteristics of a Good Consortium



- ✓ Experienced coordinator
- ✓ Scientists with track record
- ✓ Relevant expertise and skills
- ✓ Good infrastructure and resources
- ✓ Involvement of competent staff
- ✓ Partners contributing to “triple helix” and “triple i” dimension
- ✓ Gender Balance
- ✓ Multidisciplinary
- ✓ Partners have Complementarity (no major overlaps) and synergies
- ✓ Relevant stakeholders
- ✓ Good distribution of work
- ✓ Added value of each partner
- ✓ Previous collaborations
- ✓ Commitment



Consortia... Partners... in H2020...

H2020... “Networking Means” Exercise



- In...three (3) minutes:
- Let's think together...
 - Three (3) Partner Search means and/or approaches you would suggest
 - One (1) that you would not suggest

Where should I look for “Core”

- Personal contacts
(reliable) people and institutions you have worked with in other scientific/ research endeavours
- Previous Collaborations in (EU) Projects
- Contacts from participation in Working Groups / Committees



How about additional Good

▪ COST Actions Partners?

▪ NCP Networks' Partner Search Tools:

→ http://ec.europa.eu/research/participants/docs/h2020-funding-guide/grants/applying-for-funding/find-partners_en.htm

→ ICT, Health, Energy, Environment, Transport_

▪ EEN Cooperation Opportunities Databases

→ <http://een.ec.europa.eu/tools/services/SearchCenter/SearchofileSimpleSearch>

▪ Brokerage Events, Info-days, Seminars, Conferences

▪ *Linked In, ResearchGate.net, Academia.edu, Ang List*



H2020...

At a Glance...



- Now, let's**
- Researcher / Research Team: **Suppose...:**
 - Environmental Protection...
 - Sustainable Use of Resources
 - Sustainable Development and Management...
 - Waste Management...

- Renewable Energy Sources...
- Climate Change (Adaptation and Mitigation)...
- Use of Novel Technologies and Innovations for the Environment...

Where to look for Calls and Info...?

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>

Funding & tender opportunities
Single Electronic Data Interchange Area (SEDIA)

English EN
Register Login

Home SEARCH FUNDING & TENDERS HOW TO PARTICIPATE PROJECTS & RESULTS WORK AS AN EXPERT SUPPORT

Search funding & tenders
Funding updates
Archived funding (FP7-CIP)

Funding & tender opportunities (the Single Electronic Data Interchange Area) is the entry point for participants and experts in funding programmes and tenders managed by the European Commission and other EU bodies.

Find calls for proposals and tenders

Search calls for proposals and tenders by keywords, programmes... Search

EU Programmes

3rd Health

Asylum, Migration

Consumer

Creative Europe

European Defence
Industrial
DevelopmentEU Aid Volunteers
Programme (EUAID)Erasmus+
Programme
(ERPLUS)Europe For Citizens
(EFC)

Where to look for Calls and Info...?

- 📁 Legislation ⓘ
 - 📁 Framework programmes (EC-Euratom)
 - 📁 Rules for participation
 - 📁 Specific programme
 - 📁 European institute of Innovation and Technology (EIT)
- 📁 Work Programmes
 - 📁 2014-15
 - 📁 2016-17
 - 📁 2018-20
 - 📁 Main WP
 1. Introduction 2018-20 >
 2. Future and Emerging Technologies (FETs) 2018-20 >
 3. Marie Skłodowska-Curie actions (MSCA) 2018-20 >
 4. Research infrastructures (including e-Infrastructures) 2018-20 >
 5. Introduction to Leadership in enabling and industrial technologies (LEITs) 2018-20 >
 - 5i. Information and communication technologies (ICT) 2018-20 >
 - 5ii. Nanotechnologies, advanced materials, advanced manufacturing and processing, biotechnology 2018-20 >
 - 5iii. Space 2018-20 >
 6. Access to risk finance 2018-20 >
 7. Innovation in SMEs 2018-20 >
 8. Health, demographic change and well-being 2018-20 >
 9. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the bioeconomy 2018-20 >
 10. Secure, clean and efficient energy 2018-20 >
 11. Smart, green and integrated transport 2018-20 >
 12. Climate action, environment, resource efficiency and raw materials 2018-20 >
 13. Europe in a changing world - inclusive, innovative and reflective societies 2018-20 >
 14. Secure societies – protecting freedom and security of Europe and its citizens 2018-20 >
 15. Spreading excellence and widening participation 2018-20 >
 16. Science with and for society 2018-20 >
 17. European Innovation Council (EIC) 2018-20 >
 18. Dissemination, Exploitation and Evaluation 2018-20 >
 - 📁 General Annexes to the Main WP
 - 📁 European Research Council
 - 📁 Euratom

**But also
the... “less
obvious”...**

**Keep an eye
at the...
obvious...**

Priority 3. Societal Challenges



1. Health, demographic change and wellbeing

2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy

3. Secure, clean and efficient energy

4. Smart, green and integrated transport

5. Climate action, Environment, resource efficiency and raw materials

6. Inclusive, innovative and reflective societies

7. Secure societies



Decarbonisation.



Climate adaptation, impacts and services.



Connecting economic and environmental gains - the circular economy.

Inter-relations between climate change, biodiversity and ecosystem services



Water for our environment, economy and society

Innovating cities for sustainability and resilience.

Protecting and leveraging the value of our natural and cultural assets: Earth observation



Priority 3. Societal Challenges



1. Health, demographic change and wellbeing
2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy
- 3. Secure, clean and efficient energy**
4. Smart, green and integrated transport
5. Climate action, Environment, resource efficiency and raw materials
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Energy efficiency

Global leadership in renewables

Smart and clean energy for consumers

Smart citizen-centred energy system

Enabling near-zero CO2 emissions from fossil fuel power plants and carbon intensive industries



“Hints”...

“Tips”...



Evaluator's
“Eyes”





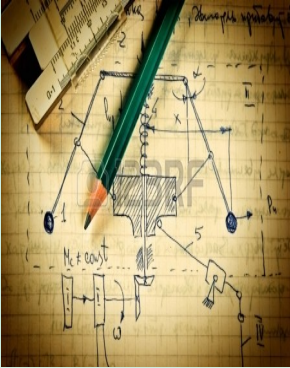


Common
Errors

H2020
Proposal
Writing



Best
Practice

	Excellence	Impact	Implementation
Weighting and Ex Aequo Priority	Check Calls!!!		
<p data-bbox="34 515 200 554">“Content”</p>  	<ul style="list-style-type: none"> •Clarity and pertinence of the objectives; •Credibility of the proposed approach. •Soundness of the concept; •Quality of the proposed coordination and/or support measures; •Progress beyond the state-of-the-art. 	<ul style="list-style-type: none"> •The expected impacts listed in the work programme under the relevant topic; •Enhancing innovation capacity and integration of new knowledge; •Strengthening the competitiveness and growth of companies by developing and delivering innovations meeting the needs of European and global markets; •Effectiveness of the proposed measures to exploit and disseminate the project results (including management of IPR), to communicate the project, and to manage research data where relevant. 	<ul style="list-style-type: none"> •Coherence and effectiveness of the Work Plan, including appropriateness of the allocation of tasks and resources; •Complementarity of the participants within the consortium (when relevant); •Appropriateness of the management structures and procedures, including risk and innovation management.  



Excellence

Objectives and overview
Research **methodology and approach**: highlight the type of research and innovation activities proposed
Explain the **contribution that the project is expected to make** to advancements within the project field.
Describe any **novel concepts**, approaches or methods that will be employed.

“Hints...”



Impact

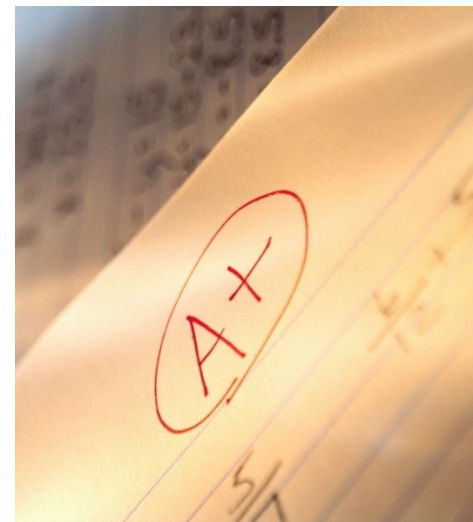
- Important field of research for Europe
- **High practical value** of the project and also results can be applied to larger class of problems (tackling also **multidisciplinarity**)
- Comparison of experience in relevant field outside Europe and showing that **project will promote European research and excellence and EU competitiveness** (also showing potential for new jobs creation)
- **Dissemination, Exploitation and Outreach of the project results** IPR, Open Access, Scientific Community but also Wider Public.

Implementation

Work Packages description
Deliverables (= tangible output: report, document, technical diagram, software, etc.)
Milestones (=control/ decision points that help to chart progress)
Gantt Chart (=Table of Activities over planned time) and **PERT-gram**
• **Synergies of Partners**: each has clear contribution and role
Progress monitoring and management structure, including the **financial management** strategy
• **Risk management** for Risks that might endanger reaching the project's objectives and the **contingency plans** to be put in place should risk occur.

→ What Evaluators expect

- Well-organised, “flowing” text. Proposal should make the Evaluator’s “life” easier: consistent, well-written, following guidelines/templates.
- Proposal should help the Evaluators score it more easily: “built” around the Evaluation Criteria.
- Proposal has to convince that it will add value in the specific field, for the EU at large.
- Clear description of the **contribution to beyond-the-state-of-the-art**, as well as of the **competencies and synergies of Consortium**.

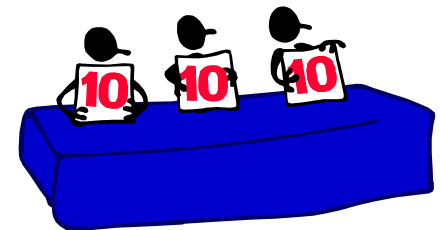


“Hints” ...

“Tips” ...

- Evaluators don't have too much time... Keep it simple and concise
- Always revisit the Criteria-questions... **Stay within “Scope” and “Expected Impact”**
(→ copy from Documentation and work around it)
- No duplications of previous works/projects, but... building on them
- Clear language and organised contents
- Explain abbreviations / Use Glossary
- Use tables and diagrams (relevant and easily understandable)

General
“Good Practice”



“Hints” ...

“Tips” ...

- Use Margins and Font Size / Page-Numbering / Page Limits set in Templates...!
- **Accurate, Verifiable and Professional content (refer. where needed)**
- No “emphatic” statements and claims that are unsubstantiated
- Consistent in UK English throughout. NO jargon or slang.
- **Write for the “non-specialist” - educate te Evaluator to understand what you want to do and why it’s worth the funding... !**
- No typos, no inconsistencies, no obvious cut-&paste, no numbers which don’t add up, no missing pages...



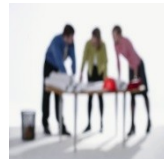
General
“Good
Practic
e”



“Hints”...

“Tips”...

Good to follow the
“Logical Framework” approach:

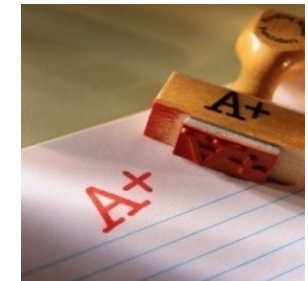
- WHY a project is carried out
- WHAT it is expected to achieve (and what not...) 
 - So, Project Objectives (and non-Objectives)
- WHO is going to do the work... 
 - So, Consortium and the synergies and complementarity of Partners
- HOW the project is going to achieve the above... 
 - So, Work-Plan and Phases of Work, as well as Means/Resources to be utilized.

“Hints” ...

“Tips” ...

Proposal – Writing Basic Hints by Cyl-EEWRC...!

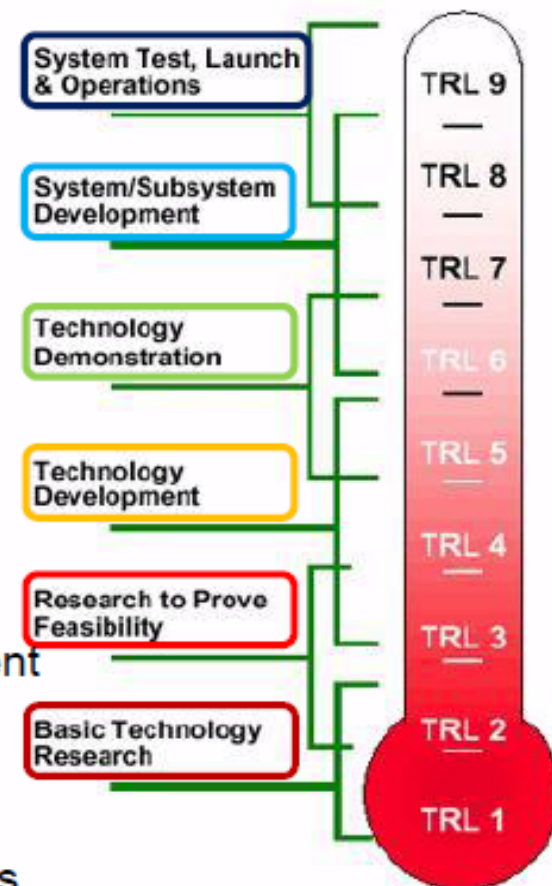
- ✓ Develop end-to-end applications!
- ✓ Showcase and build on trials, and develop/ further enhance any early prototypes...
- ✓ Underline the Innovative, Beyond-the-State-of-Art character of your solution/ project...
- ✓ Provide Public Benefits from your solution/ project...
- ✓ Strengthen the community of relevant developers of technologies!
- ✓ Exploit (if any) mature business concepts...
- ✓ Don't forget **Technology Readiness Level(s)**....!
- ✓ Take into account relevant standards and regulations (eg. Safety and security)....!



Technology Readiness Level – TRL

➤ to assess the maturity of evolving technologies during its development.

- TRL 1: Basic principles observed and reported
- TRL 2: Technology concept and/or application formulated
- TRL 3: Analytical and experimental critical function and/or characteristic proof of concept
- TRL 4: Component and/or breadboard validation in laboratory environment
- TRL 5: Component and/or breadboard validation in relevant environment
- TRL 6: Prototype demonstration in relevant environment
- TRL 7: Prototype demonstration in an operational environment
- TRL 8: System completed and qualified through test and demonstration
- TRL 9: System proven through successful mission operations



- **SEDIA**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/home>

- **Helpdesk and Support Services**

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/support/helpdesks;programCode=H2020>

- **Horizon 2020 On-line manual**

http://ec.europa.eu/research/participants/docs/h2020-funding-guide/index_en.htm

- **Annotated Model Grant Agreement (version 6Dec2018) →**

http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/amga/h2020-amga_en.pdf

- **EURAXESS (Charter-&-Code, Policy...)**

<https://euraxess.ec.europa.eu/>

<https://euraxess.ec.europa.eu/useful-information/policy-library>

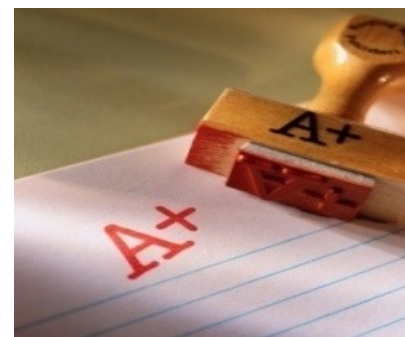
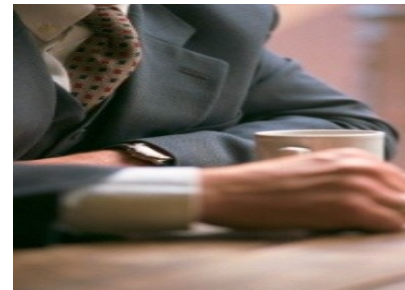


“Hints” ...

“Tips” ...

Proposal – Writing “General Advice” by Cyl-EEWRC...!

- ✓ Start early... Get Guidance and Info...!
- ✓ Create/Join Consortia on time, based on whom you know/ have worked with or valid suggestions
- ✓ Get your “Policy Background” together → Impact...
- ✓ Follow the Template-GfA → cover all requested
- ✓ Divide effort over the Evaluation Criteria!
- ✓ When you write...KISS (keep it simple & short)
- ✓ When you image/table...KILL (keep it large & legible)
- ✓ Details! Details!
- ✓ Get your Proposal PRESCREENED... and PROOF-READ...!

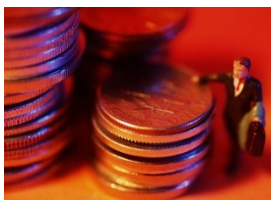


Successful Proposals are

S *Specific*



M *Measurable*



A *Attainable*

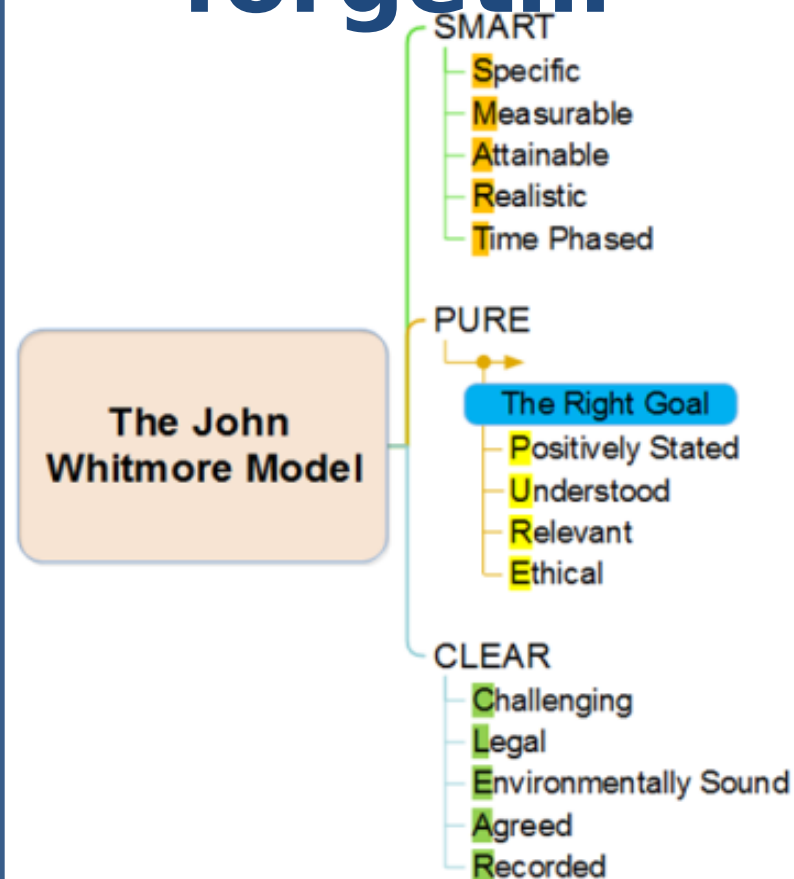


R *Relevant*

T *Timely*



But also, don't forget...



<https://www.biggerplate.com/mindmaps/NM3mZKfq/a-re-your-goals-smart,-pure,-and-clear>

(Doran, G.T., 1981. Management Review)

SMART Proposals are...

“Prescreened” ...!!!

- We offer **FREE** (but not cheap...) guidance to our *Team and Collaborators*.

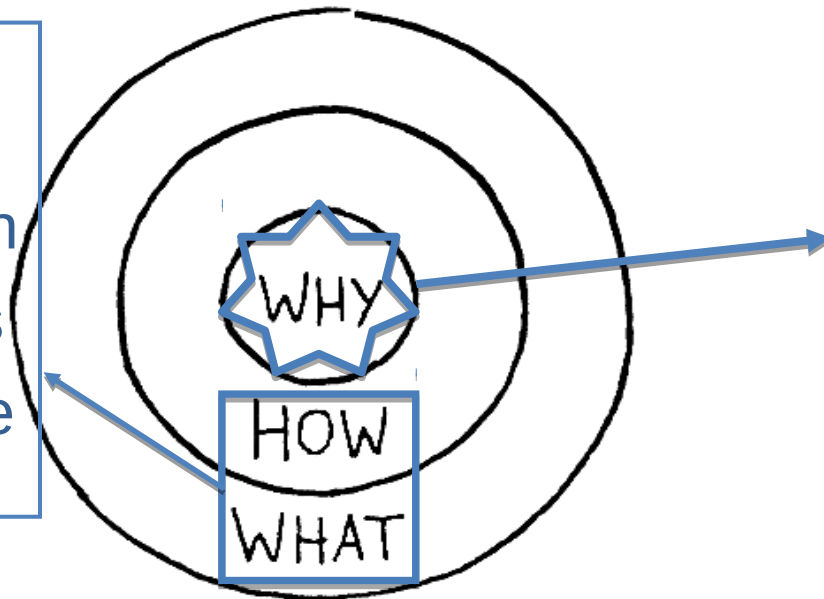
- Cyl-EEWRC “Intensive Mentoring” approach:
 - proof-reading (“commas” and “fullstops”)
 - “Deciphering” of EC-jargon and Addressing of Template’s Questions
 - Strategy and Text Suggestions



The Golden Circle

... our "Why"...

Our...
Approach
Services
Expertise

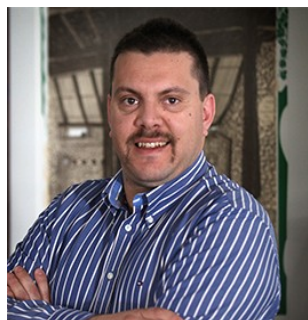


Our Credo
Inspire...
Motivate...
Empower...

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...We believe in holistic and inspirational solutions, of environmental, social and technological consciousness and maturity, motivating scientific research and empowering next generations for the future...

Thank You ...



Pierantonios Papazoglou
ic Coordinator - The Cyprus Institute
ergy-Environment-Water Research Centre

Mobile phone: +357 99 90 03 75

Email: p.papazoglou@cyi.ac.cy

<https://cy.linkedin.com/in/pierantoniospapazoglou>

<https://www.researchgate.net/profile/Pierantonios>

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