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**amee**  
Moroccan Agency  
for Energy Efficiency



**RCREEE**  
Regional Center for Renewable Energy and Energy Efficiency  
المركز الاقليمي للطاقة المتجددة وكفاءة الطاقة



Mitigation Enabling Energy Transition in the MEDiterranean region

## A2.2 Concerted Actions on Buildings – Key developments and session work plan

João Cleto, A2.2 Leader, ADENE

11 May 2023  
Marrakech

# Recap: what is A2.2? Where we stand

## Aim:

Define and implement “**Concerted Actions**” with the help of the Regional Network of Experts (meetMED REN) on energy efficiency in buildings



## Objectives:

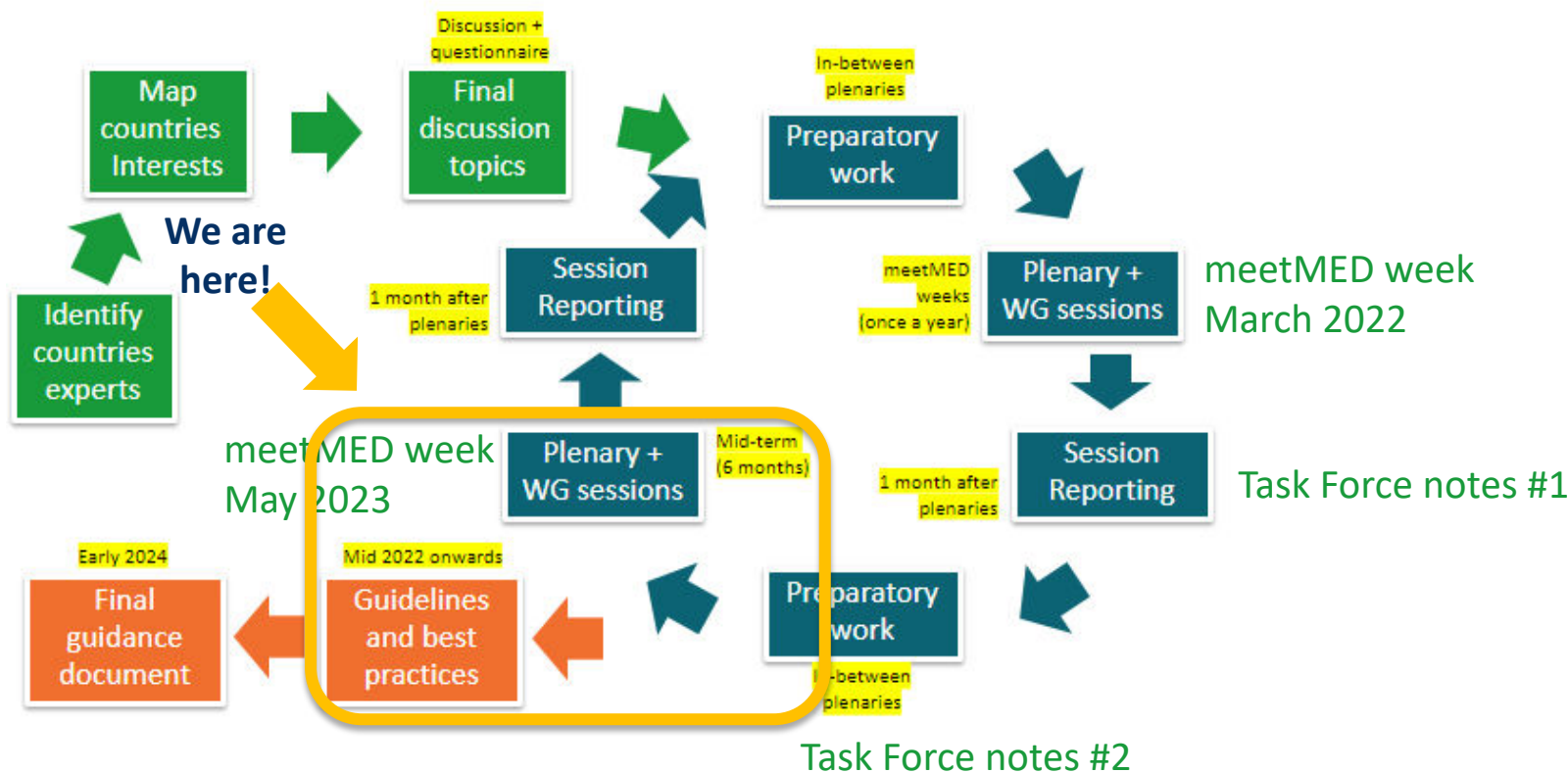
- ✓ Support policy/decision makers on the harmonisation of legislation, regulations, and standards in the buildings sector including technical building systems and aiming at the national integration of policies and legal frameworks
- ✓ Enhance and structure the sharing of information and experience and promote the exchange of best practices, including through national stakeholders’ networks
- ✓ Create favourable conditions to fasten the convergence of national procedures on EE in buildings related matters.



# Recap: what is A2.2? Where we stand

## Our Path

Support to policy / decision makers on harmonization of legislation, regulations and standards in buildings' sector: "Concerted Action on Buildings"



# Deliverables and indicators

## D2.2 TASK FORCE NOTES

- Organization of the regional **annual seminars**, including the event, concept note and agenda.
- **meetMED country experts** present **data and case studies** at the regional annual seminars.



**Reports with summary of session results**

## D2.2 GUIDELINES AND BEST PRACTICES ON ENERGY EFFICIENCY MEASURES IN BUILDINGS

- Core team will **draft the guidelines** on energy efficiency measures **based on the results of the working groups**.
- meetMED country experts will **review and contribute to the guidelines** on energy efficiency measures.



(On-going) **document embedding the findings from task 2.2**

## D2.2 INDICATORS

**Number of relevant policies and measures** proposed to national authorities for adoption



At least **10 policies proposed for implementation** in 8 countries

**4 WG**

**WG1**  
Energy Efficiency  
Building Codes


**WG2**  
Building  
Renovation

**WG3**  
Labelling and  
Training

**WG4**  
Financing

**Task Force Notes**


D.2.2.d – ongoing doc

  
*Task Force notes*  
  
*Concerted Action on Buildings*

  
Energy Efficiency  
Building codes  
*Working Group notes*  
Building Renovation  
*Working Group notes*  
Labelling and Training  
*Working Group notes*  
Financing  
*Working Group notes*

**1 final report**

D.2.2.e  
(at the end of project)


  
**CA BUILDINGS**  
  
*Guidelines and best practices*

Potential content

- ✓ Mapping of **current status** in each target country;
- ✓ **Main policy gaps** - Opportunities and challenges
- ✓ **Detail of policy improvement**- Links with **other WPs**
- ✓ Stakeholder involvement strategy
- ✓ **Action plan**
- ✓ **Risks and Monitoring**

**A total of 10 policy recommendations to 8 countries**



  
**CA BUILDINGS**  
  
*Policy recommendations*  
  
*Country X*

A2.2 Activity Leader

Until Feb 22



Rui Fragoso

From Feb 22 onwards



João Cleto

Leading team  
4 Technical Working Groups (WG)

Until Aug 22



Cláudia Monteiro



Anna Maria Sàlamo

From Aug 22 onwards



João Cleto



Alessandra Gugliandolo



Edoardo Pandolfi

- ✓ **WG1** - Energy Efficiency Building Codes
- ✓ **WG3** - (buildings) Labelling and (experts) Training
- ✓ **WG2** - Building Renovation
- ✓ **WG4** - Financing

## Achievements

- 1<sup>st</sup> meeting – November 2021 - Introduction to Work Package 2
- Expert identification (36 experts identified)
- Questionnaires and mapping of priority topics for each country identified
- Working sessions held during the first meetMED Week – March 2022
- Outputs of each working group and 8 concrete examples presented
- Key outcomes, conclusions and information/knowledge gaps
- 1 to 1 meetings: policy grouping, focused Working Groups interaction and key takeaways/messages/recommendations + country focus working document

Almost all the results have been summarized in the ongoing and live document **Task Force Notes #1 #2!**





How did meetMED respond to identified priorities?  
WG1 – Energy Efficiency Building Codes

WG1 priorities	WG1 - EE Building Codes			WG2 - Building Renovation			WG3 - Labelling and Training			WG4 - Financing		
	Presentation 1	Presentation 2	Presentation 3	Presentation 1	Presentation 2	Presentation 3	Presentation 1	Presentation 2	Presentation 3	Presentation 1	Presentation 2	Presentation 3
Cooling technologies/solutions	2	1	3	3	2	2	2	2	2	2	2	2
Energy storage	3	1	1	1	1	1	1	1	1	1	1	1
Interconnection between Building Codes and Energy Performance Certification System	3	3	3	3	3	3	2	2	2	2	2	2
Maintenance and inspection of technical systems in buildings	2	1	1	2	2	2	2	2	4	2	2	2
Setting up minimum energy performance requirements for buildings or its components	5	3	3	2	2	2	2	2	2	2	2	2
Future climate and bioclimatic design	2	1	3	2	4	4	1	1	1	1	1	1
Nearly Zero Energy Buildings or Zero Emission Buildings	2	1	4	1	3	3	2	3	2	3	3	3
Setting up and mapping building codes	5	5	2	1	2	3	1	1	2	2	2	2
Thermal comfort requirements	2	2	3	3	3	3	3	3	3	3	3	3
Electric energy production	2	2	1	2	2	2	2	2	2	2	2	2

WG1 – Energy Efficiency Building Codes

	Average Evaluation	Priority
Cooling technologies/solutions	1,6	10
Energy storage	1,0	9
Interconnection between Building Codes and Energy Performance Certification System	2,8	8
Maintenance and inspection of technical systems in buildings	1,7	7
Setting up minimum energy performance requirements for buildings or its components	3,5	6
Future climate and bioclimatic design	1,8	5
Nearly Zero Energy Buildings or Zero Emission Buildings	4,2	4
Setting up and mapping building codes	2,2	2
Thermal comfort requirements	2,2	2
Electric energy production	2,0	1

Priority and knowledge gap  
Priority and knowledge gap referred in 1 to  
Priority and knowledge gap

Country	WG	Priority topics	Policy to be improved 1	Policy to be improved 2
Jordan	WG1 - Energy efficiency building codes	cooling technologies and policies	National Energy Efficiency Action Plan	National Cooling Action Plan
Jordan	WG1 - Energy efficiency building codes	energy storage solutions	National Energy Efficiency Action Plan	-
Lebanon	WG1 - Energy efficiency building codes	Electric energy production - Decentralized PV	National Energy Efficiency Action Plan	Policy developments in PV production at local scale
Morocco	WG1 - Energy efficiency building codes	Interconnection between Building Codes and Energy Performance Certification System	National Building Code revision - RCTM to EPC	-
Morocco	WG3 - Labelling and Training	Setting up buildings Energy Performance Certifications schemes	voluntary EPC set up using synergies with EPS standards	-
Morocco	WG3 - Labelling and Training + WG4 - Financing	Current sources of financing also for sustainable energy systems (for example incentives, legal obligations on existing or new)	Link EPC voluntary system of access to financing	-
Palestine	WG1 - Energy efficiency building codes + WG3 - Labelling and Training	MEPS for buildings and components - public buildings	Setup of an Energy Rating system for public buildings	-
Libya	WG1 - Energy efficiency building codes	Setting up and mapping building codes	regulation/building codes, enforcement strategies and licensing procedures	-
Algeria	WG1 - Energy efficiency building codes	Setting up and mapping building codes	Improvement of the building codes framework and especially the enforcement procedures	-
Algeria	WG3 - Labelling and Training	N/A	Develop schemes on labelling for appliances - explore synergies with buildings systems/policies	-
Algeria	WG4 - Financing	Current sources of financing for infrastructures and real estate investments in general, in particular for sustainable energy systems (for example incentives, legal obligations on existing or new)	Existing (heavy) subsidies for buildings - action plan to include EE and ER and part of these schemes	-

Mapping of priorities

How the topics were addressed (or not) during meetMED week

Priorities identified in the questionnaires

WORKING SESSIONS HELD during the first meetings

Outputs of each working group and 8 concrete examples presented

Working Document – A2.2  
country focus on main priority topics identified, preliminary identification of policies to be improved

Working Document – A2.2  
country focus on main priority topics identified, preliminary identification of policies to be improved

TOPICS	PROPOSALS	PROPOSALS
Energy storage	Proposed for a regulation (problem) due to multiple stakeholders	Proposed for a regulation that has a high impact (The important thing is to find the cause)
Energy storage solutions	Proposing on different topics of PV (lamps, lighting, etc.)	Proposing incentives and licenses for use in existing and new buildings
Setting up and mapping building codes	Legislation on revision of public and private buildings	Harmonization of standards using depending by program-plan

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Conclusions and insights: policy grouping

Concerted Action on Buildings  
COP 27 messages...#2  
COP 27 messages #2

1. Links and synergies financed projects, energy efficiency communities ever
2. Energy efficiency communities ever
3. Linking voluntary also support action

strong a...  
nit, consist...  
of existi...  
buildings i...  
which all...  
and publ...  
work appr...  
of or stre...  
ent strat...  
fiscal pol...

1. In countries that are heavily fossil fuel dependent in a combination with high subsidies rate, a strong fiscal policy shift is difficult but essential. A fiscal ecosystem that promotes energy efficiency and renewable energy in buildings is an enabler for societal change and new financing opportunities. But only if the foundational grounds for a just transition that leaves no one behind are ensured.

2. Any new policy, action, strategy, project or plan should be based on existing local/regional knowledge, networks and institutional dialogue. There is a myriad of projects that have developed regional and country specific data, tools and recommendations. Cooperation at regional level is a common practice that can be further boosted. It needs to be efficient on taking existing knowledge by means of, for instance, a common lively database of good practices accessible and fed by every country/initiative.

## Key messages #2 (after 1 to 1 meetings)

1. In countries that are heavily fossil fuel dependent in a combination with high subsidies rate, a **strong fiscal policy shift is difficult but essential. A fiscal ecosystem that promotes energy efficiency and renewable energy in buildings is an enabler for societal change and new financing opportunities.** But only if the foundational grounds for a just transition that leaves no one behind are ensured.
2. **Any new policy, action, strategy, project or plan should be based on existing local/regional knowledge, networks and institutional dialogue.** There is a myriad of projects that have developed regional and country specific data, tools and recommendations. Cooperation at regional level is a common practice that can be further boosted. It needs to be efficient on taking existing knowledge by means of, for instance, **a common lively database of good practices accessible and fed by every country/initiative.**

## Key messages #2 (after 1 to 1 meetings)

- 3. Public Sector and buildings are key driving forces for intervention:** leading by example, testing solutions, developing tools and providing the grounds for private investments. A strong public policy, tested in the real world across public buildings at a national and local scale, is an effective first step for capacity building: both for the public institutions itself, for services and equipment providers and the citizens. **It should be coupled with robust and predictable financial mechanisms** that are also built on the knowledge gained with the experiences on the public sector.
- 4. Buildings and related systems on energy efficiency and renewable energies** have seen investment boosts following severe infrastructure damage and related energy shortages. This is unacceptable. **Energy efficiency and renewable energy in buildings should be in the first line on providing resilient communities and human habitats** that have the capacity to dampen and even avoiding shocks. They should not be only used as contingency strategies once the damage is done.

# Current status and next inputs expected

Country	WG	Priority topics	Policy to be improved 1
Jordan	WG1 - Energy efficiency building codes	cooling technologies and policies	National Energy Efficiency Action Plan /National Cooling Action Strategy
Jordan	WG1 - Energy efficiency building codes	energy storage solutions	National Energy Efficiency Action Plan
Lebanon	WG1 - Energy efficiency building codes	Electric energy production - Decentralized PV	Policy developments in PV production at local scale
Lebanon	WG1 - Energy efficiency building codes + WG3 – Labelling and Training	Setting up and mapping building codes	EEBC implementation schema and training
Morocco	WG1 - Energy efficiency building codes	Interconnection between Building Codes and Energy Performance Certification System	National Building Code revision - RCTM -> EPC
Morocco	WG3 – Labelling and Training	Setting up buildings Energy Performance Certifications schemes	voluntary EPC set-up using synergies with EPB standards
Morocco	WG3 – Labelling and Training + WG4 – Financing	Current sources of financing also for sustainable energy systems	Link EPC voluntary system ot access to financing
Palestine	WG1 - Energy efficiency building codes + WG3 – Labelling and Training	MEPS for buildings and components - public buildings	Setup of an Energy Rating system for public buildings
Libya	WG1 - Energy efficiency building codes	Setting up and mapping building codes	Regulation/building codes, enforcement strategies and licensing procedures
Algeria	WG1 - Energy efficiency building codes	Setting up and mapping building codes	Improvement of the building codes framework and especially the enforcement procedures
Algeria	WG3 – Labelling and Training	N/A	Develop schemes on labelling for appliances - explore synergies with buildings systems/policies
Algeria	WG4 – Financing	Current sources of financing for infrastructures and real estate investments in general, in particular for sustainable energy systems	Existing (heavy) subsidies for buildings: action plan to include EE and ER and part of these schemes
Egypt	WG4 – Financing		cooling efficiency fund to be developed taking into account financial institutions
Egypt	WG1 - Energy efficiency building codes	Setting up and mapping building codes	Improve existing building codes: enforcement procedures
Tunisia	WG1 - Energy efficiency building codes	Setting up and mapping building codes	Expansion of exisiting EEBC (RTNB) for Health institution and Hotels

	Main Priority Topics	Group of policies to be improved/implemented	Possible countries involved
WG1 – Energy Efficiency Building Codes: focus on cooling, storage and decentralized PV	Cooling technologies and policies	Reviewing, integrating, and improving the National Energy Efficiency Action Plans and Strategies to include specific actions that boost the solutions/technologies identified. In some countries, the possibility of implementing a National Cooling Action Plan/Strategy is also relevant.	Jordan, Egypt, Lebanon, Algeria (links to appliances)
	Energy storage solutions		
	Electric energy production - Decentralized PV		
WG3 – Labelling and Training + WG4 – Financing	Setting up buildings Energy Performance Certifications schemes	Set-up of voluntary EPC using synergies with EPB standards, linking EPC systems to access to financing and setting up an energy performance rating system for public buildings	Morocco, Palestine, Algeria
	Current sources of financing also for sustainable energy systems		
	MEPS for buildings and components - public buildings		
WG1 – Energy Efficiency Building Codes + WG3 – Labelling and Training + WG4 – Financing	<b>Interconnection between Building Codes and Energy Performance Certification System</b>	Revise, improve and implement building codes framework with a special focus on enforcement procedures and links to licensing procedures and current fiscal/subsidies policies. + Efficiency Funds and relation to financial sector	Morocco, Libya, Algeria, Egypt, Tunisia, Lebanon
Setting up and mapping building codes			
Current sources of financing for infrastructures and real estate investments in general, for sustainable energy systems (for example incentives, legal obligations on existing or new).			

Country	Policy Evaluation database	Policy(ies) to be improved	Policy implementation template (% progress)
Algeria	OK	OK (2)	20%
Egypt	OK	OK (2)	0%
Jordan	Ok	OK? (1/2)	0%
Lebanon	Ok	OK (2)	20%
Lybia	Ok	OK? (1)	0%
Morocco	OK? (assumed)	Ok? (1/3)	0%
Palestine	OK? (assumed)	OK? (1)	0%
Tunisia	OK	OK? (1)	0%

## Template\_policy\_recommendations\_guidelines.docx Policy Improvement Action Plan – Draft Template

### Table of contents

List of abbreviations and acronyms

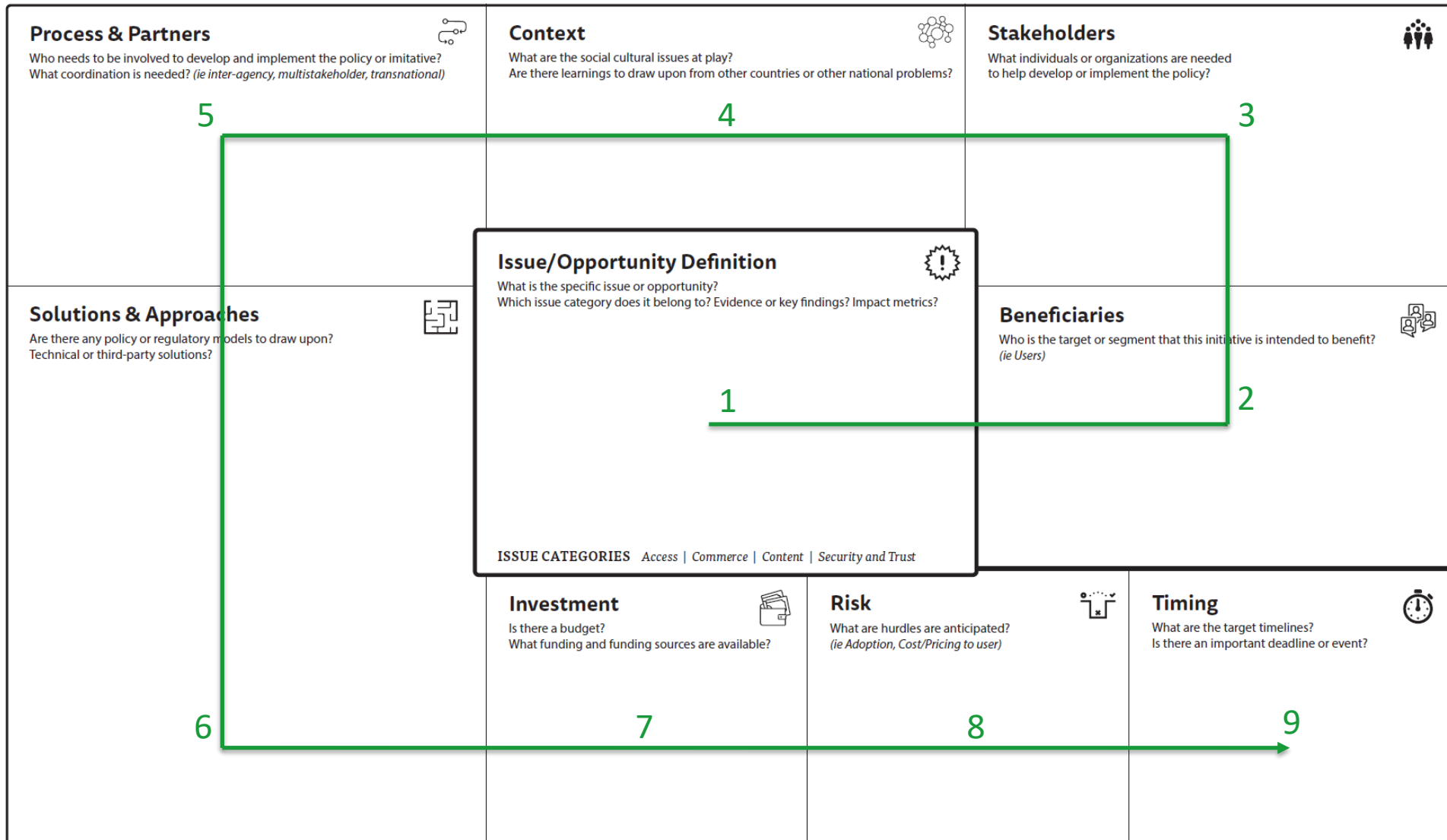
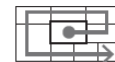
Executive summary

1. State of the art – existing policies at **countryXXX**
2. Identification of main policy gaps and relevance of new po
3. Detail of improvement to policy / new policy to be develop
4. Stakeholder identification and engagement strategy
5. Action plan for policy improvement
6. Monitoring of the action plan and policy improvement
7. Identification of risks and risk management strategy

The policy  
implementation  
template is not a  
doctoral thesis!  
Keep it short and  
simple



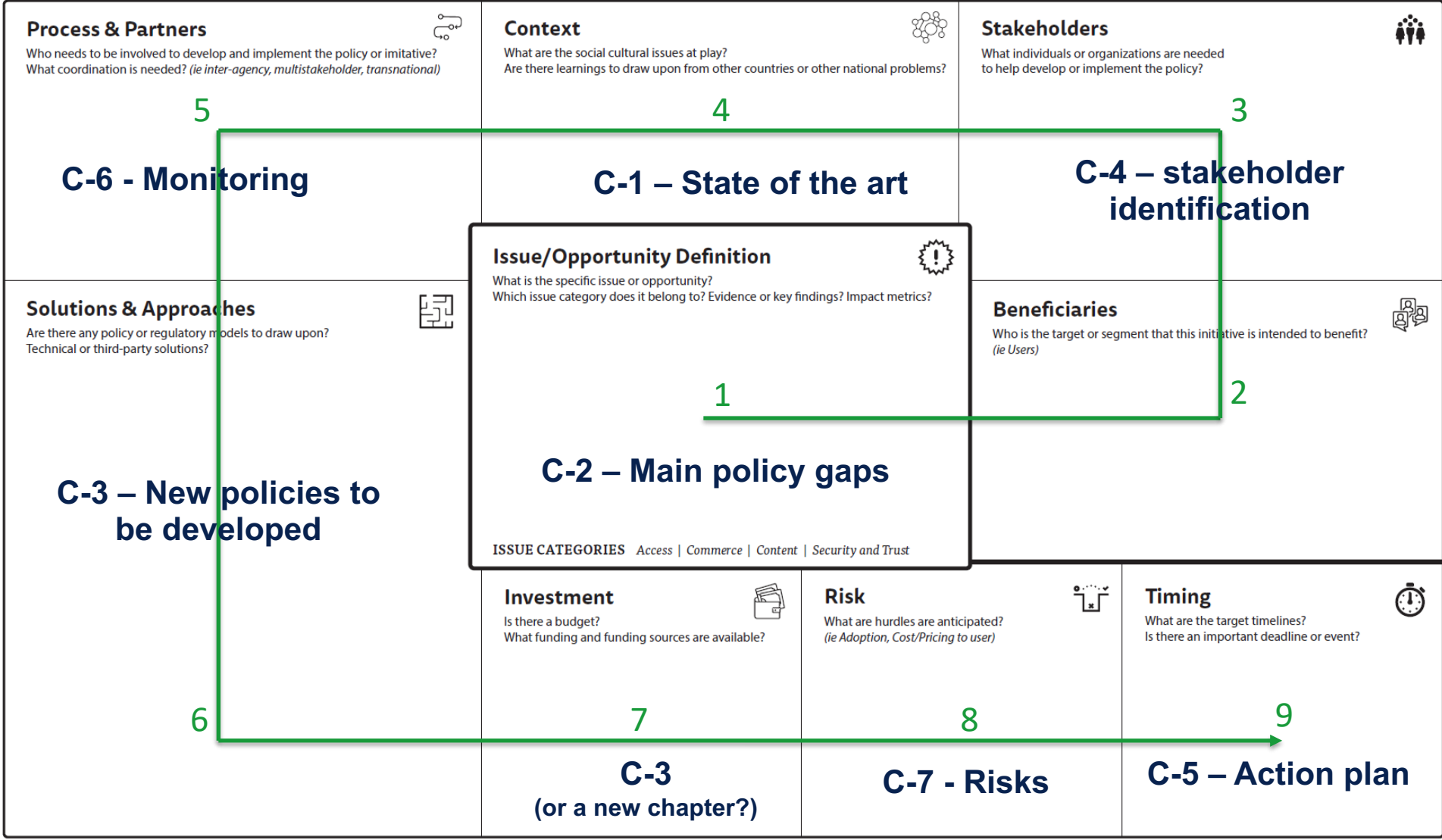
# Policy Model Canvas

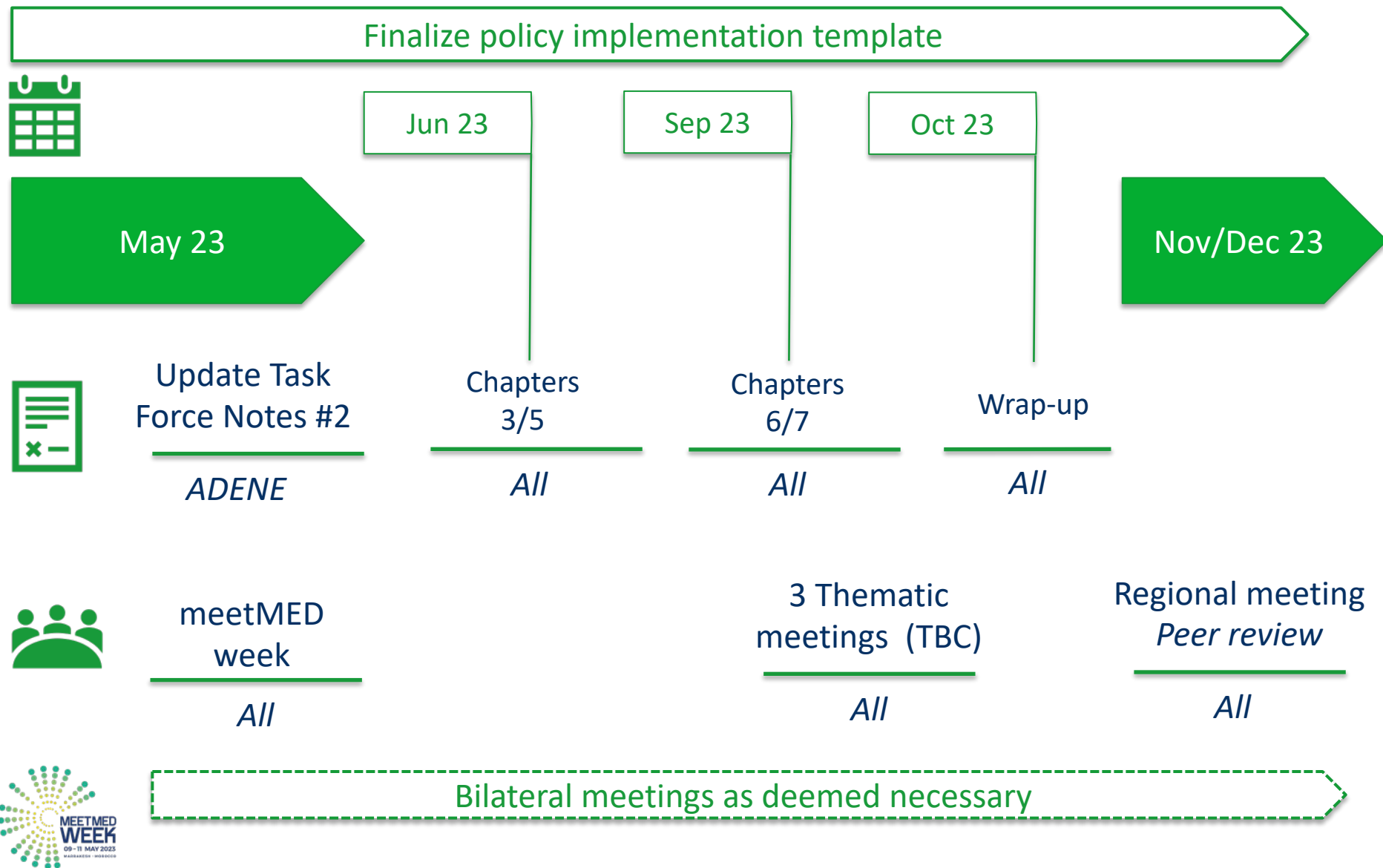


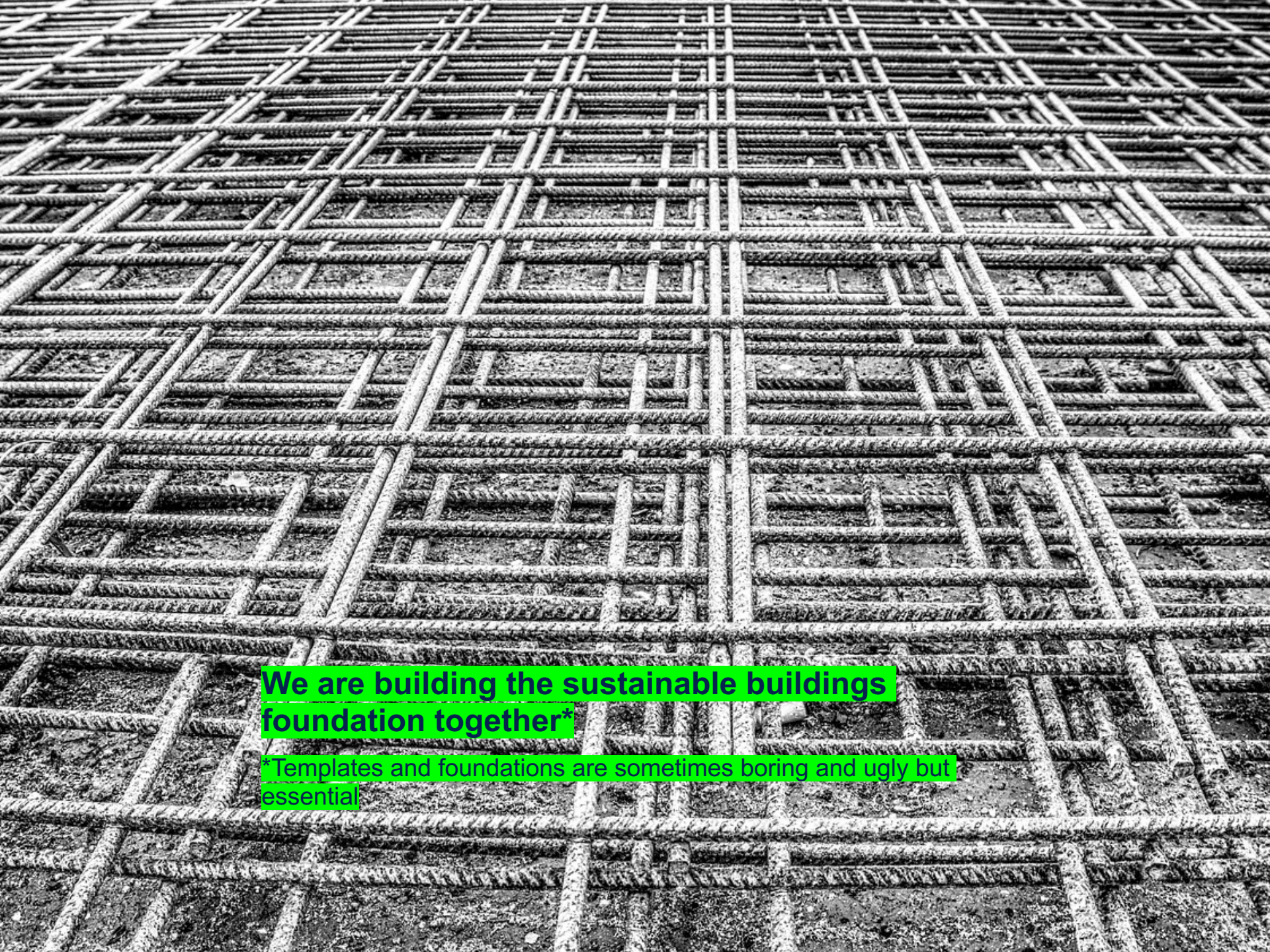
Relation w/ template  
(C – chapter)

# Policy Model Canvas

**C-5 – Action plan**  
(aggregates everything)







**We are building the sustainable buildings  
foundation together\***

**\*Templates and foundations are sometimes boring and ugly but  
essential**

## Concerted Action on Buildings

meetMED Week  
regional meeting



**MEETMED WEEK 2023**  
Second Edition - Morocco

09-11 MAY 2023

Together Towards Efficient Buildings and Appliances in the Mediterranean

**AGENDA**

RCREEE  amee  MED ENER

Regional Center for Renewable Energy and Energy Efficiency  
المركز الإقليمي للطاقة المتجددة وكفاءة الطاقة  
Moroccan Agency for Energy Efficiency

# meetMED Week regional meeting

## Activity 2.2 “Concerted Action on Buildings”

09:00 - 09:30	Welcoming Coffee & Registration
09:30 - 10:00	<p>The Concerted Action on Buildings from <u>meetMED</u> project perspective Introductory Roundtable</p> <p><i>meetMED Project Manager, ADEME, Agathe Lacombe</i> <i>WP2 Leader, ENEA, Alessandro Fiorini</i> <i>Activity A2.2 Leader, ADENE, João Cleto</i></p>
10:00 – 10:20	<p><b>A2.2 Concerted Actions on Buildings – Key developments and session work <u>plan</u></b> <i>Activity A2.2 Leader, ADENE, João Cleto</i></p> <p>A2.2 outputs as a basis for the session work plan. Key takeaways/messages/recommendations, next steps and next A2.2 meeting.</p>

# meetMED Week regional meeting

## Activity 2.2 “Concerted Action on Buildings”

### Hands-on!

*After short pitches from REN experts in some of the priority topics identified, participants will work together, aggregated according to their common interests and working groups. The sessions will be dynamic with live polls so that each country/group starts the work on the policy guideline templates of their own country and fine tune key messages according to meetMED week main conclusions.*

# meetMED Week regional meeting

## Activity 2.2 “Concerted Action on Buildings”

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# meetMED Week regional meeting

## Activity 2.2 “Concerted Action on Buildings”

### WG1 - Energy Efficiency Building Codes

#### Session 1 - Cooling buildings and the planet (10:20 – 10:55)

Starting from a short pitch by Nesen Surmeli Anac, Guidehouse / CoolUP Programme and the Jordan experience in this project by Sawsan Bawaresh, RSS, Jordan, **(15 mins)**. Morocco’s experience on cooling will also be shared with the participation of Saïd El Harch **(5 min)**. The interactive session will explore links with buildings related actions on the national cooling action strategy in Jordan, the Moroccan experience, and its learnings. **(15 min)**

#### Session 2 - Improving and implementing building codes (10:55 – 11:20)

Starting from a short pitch by Sabine Saad, ALMEE, **(10 min)** the interactive session will explore the approaches to implement, improve and enforce strong Energy Efficiency Building Codes. **(15 min)**

# meetMED Week regional meeting

## Activity 2.2 “Concerted Action on Buildings”

### WG 3 - Labelling and Training

**Session 3** - EPC and EPB standards: Common standards, better certification.  
(11:20 – 11:45)

Starting from a short pitch by Rui Fragoso, ADENE, Portugal, **(10 min)** the interactive session will work upon the experience and influence of Energy Performance of Building Standards in the Energy Performance Certification Systems. **(15 min)**

**Session 4** - EPC and EPB standards: Links to policy implementation. (11:45 – 12:10)

Starting from a short pitch by Fairouz Ramli, APRUE, Algeria, TBC **(10 min)** the interactive session will explore synergies between the TAKA NADIFA initiative and interconnection with other meet MED activities and lessons learnt regarding EPC's/building. **(15 min)**

# meetMED Week regional meeting

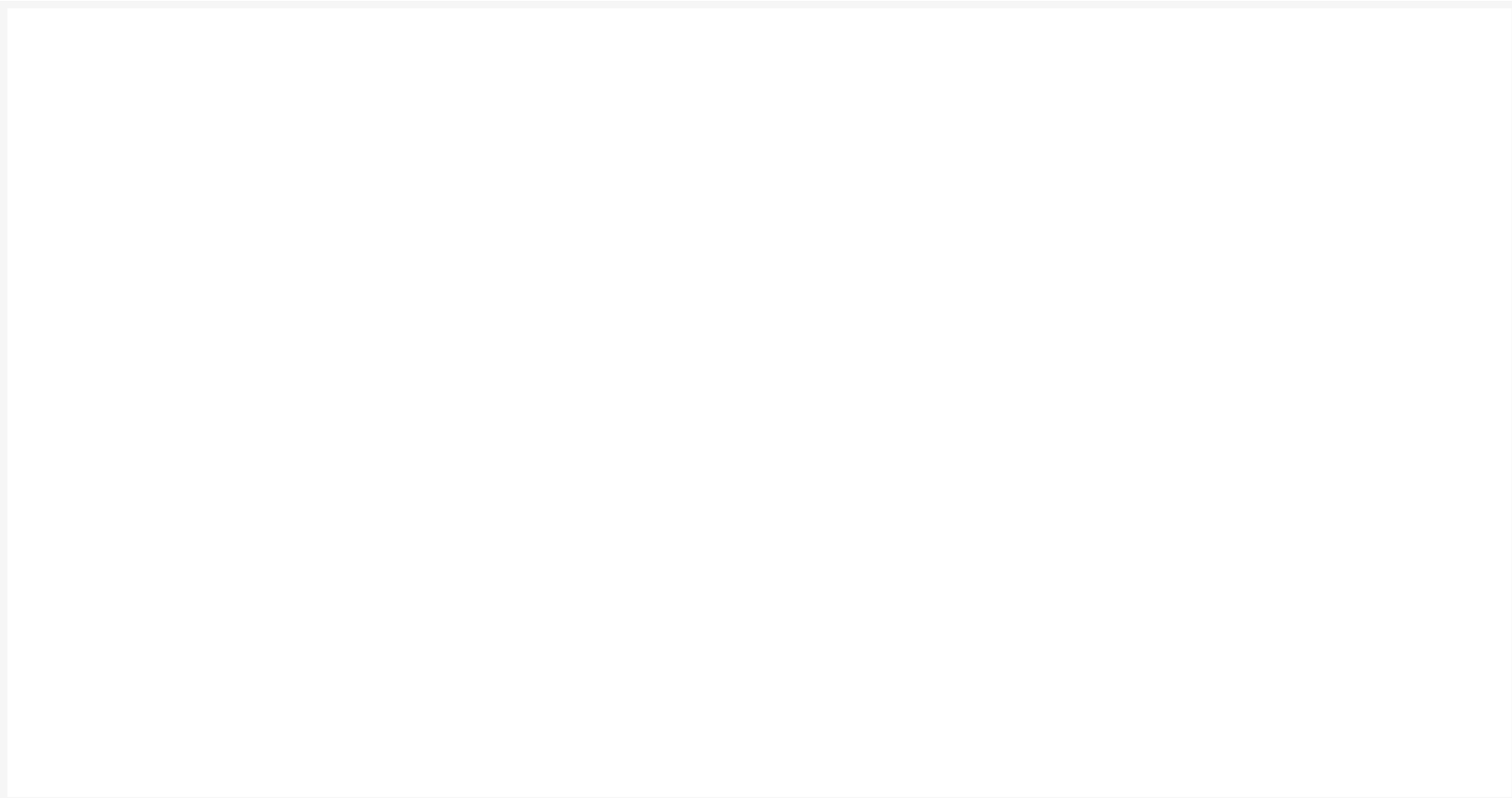
## Activity 2.2 “Concerted Action on Buildings”

### WG 4 - Financing

**Session 5** - Financing schemes for energy efficiency and links to building codes, standards and labelling. (12:10 – 12:20)

Short pitch by Eva Martínez Caraballo, IDAE, Spain, **(10 min)** that will explore Spain’s PRE 5000 financing tool for energy efficiency in buildings and how financing schemes support and are supported by building codes, standards and labelling.

*Note: WG 2 - Building Renovation will be worked upon in relation to the topics identified above and common interests identified.*



Source: [https://directpoll.com/r?  
YDkzDP42ivYac9D2Yugcotm46z/km7Wp5VkuMoln](https://directpoll.com/r?YDkzDP42ivYac9D2Yugcotm46z/km7Wp5VkuMoln)

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DirectPoll 

Open Expired Poll

netcetera

Source: [https://directpoll.com/r?](https://directpoll.com/r?XDbzPBdJ2bAX0ZEcAR3ZXymunuJyUfI)

XDbzPBdJ2bAX0ZEcAR3ZXymunuJyUfI

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netcetera

Source: [https://directpoll.com/r?](https://directpoll.com/r?XDbzPBdJ3cBY1aFdBS4aYznavovKzVgE)

XDbzPBdJ3cBY1aFdBS4aYznavovKzVgE

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# Contact us!



Mitigation Enabling Energy Transition in the MEDiterranean region  
**Together We Switch to Clean Energy**

For any inquires or comments, please  
don't hesitate to contact us

Name: João Cleto

Email: [joao.cleto@adene.pt](mailto:joao.cleto@adene.pt)

Organization: ADENE



This project is funded  
by the European Union

 [www.meetmed.org](http://www.meetmed.org)

 [meetMED Project](#)

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