



BINGO
a better future under
CLIMATE CHANGE

**BRINGING INNOVATION TO ONGOING
WATER MANAGEMENT**

THE BINGO GAME

MARCH 2019

www.projectbingo.eu



The BINGO project has received funding from the European Union's Horizon 2020 Research and Innovation programme, under the Grant Agreement number 641739.

BINGO game for CoPs

Questions

to print and, if you decide to use sticks, glue it to them

P1 What is BINGO?

R1 BINGO is a EU 2020 Research Project on Climate Change and Water Systems Management

P2 What does BINGO mean?

R2 BINGO means: Bringing INnovation to onGOing water management aiming a better future under climate change

P3 BINGO focus its activities in 6 Research Sites. Where?

R3 The six BINGO Research Sites were: Wupper River Basin (Germany); Troodos Mountains (Cyprus); Badalona (Spain); The Veluwe (The Netherlands); Bergen (Norway); Tejo Basin (Portugal)

P4 What kind of relevant results did BINGO produced?

R4 BINGO produced relevant results in terms of climate predictions, hydrologic models, risk assessment, adaptation measures and stakeholders' engagement and active collaboration

P5 How can climate change be relevant to water systems management?

R5 Climate Change is of utmost relevance to water systems managent as floods and droughts are more and more severe and frequent and a shift may be expected in average water availability

P6 **How did BINGO involve all the different partners and local stakeholders?**

R6 BINGO settled and facilitated a Community of Practice (CoP) in each site, involving researchers, technicians, decision makers and community organizations

P7 **What is a BINGO CoP - Community of Practice?**

R7 A CoP is a group of significant and diverse stakeholders, who are connected through a common issue, willing to share and join experiences, skills, ideas, resources and interested in creating actions to embrace shared challenges

P8 **How did BINGO CoP worked?**

R8 Relevant and diverse stakeholders have been identified in each site and invited to join several face-to-face collaborative workshops during all the project development, to launch an actionable lab around a shared local challenge and to keep in touch through a virtual Platform

P9 **To what were devoted the BINGO CoP collaborative workshops Roadmap?**

R9 BINGO CoP collaborative workshops followed a join agenda in all research sites: 1) Setting the Scene; 2) Are we prepared? 3) Yes, we are; 4) Solving the unsolvable; 5) Sharing and expanding; 6) ...And after CoP?

P10 **How did BINGO CoP Roadmap helped to robust the CoP dynamic?**

R10 BINGO CoP Roadmap was connected to specific scientific needs and outputs but also made room and was sensitive to the CoP ongoing developments and stakeholders concerns and needs

P11 **How did BINGO CoP collaborative workshops run?**

R11 BINGO CoP collaborative workshops ran in very informal ambiances, enabling sharing of experiences and information between researchers and non-researchers and facilitating a process of join outputs co-production

P12	How did BINGO CoP made the difference to the project development?
R12	Involving local stakeholders in each site since the beginning and all along the project development, gave everyone a voice and enabled to connect results to action according to each site specificity
P13	How did BINGO CoP helped to overlap communication gaps between researchers and non-researchers?
R13	Designing a double-side communication strategy was essential to respect and ensure time to build feelings of belonging, shared visions and committed goals
P14	What was the main role of BINGO CoP Facilitators?
R14	BINGO CoP Facilitator enabled mutual trust ambiances, respecting and holding the specificities of each group, helping to overcome eventual constrains and creating opportunities to address specific CoP challenges
P15	Why is it relevant to built a solid and diverse base for CoP development?
R15	A solid and diverse CoP base allows fruitful new dialogues, empathy building with each other concerns and "shoes", more robust perception and shared frameworks and collective implication in join actions
P16	What does a collaborative workshop storyboard differs from a simple meeting agenda?
R16	A workshop storyboard means preparing and choosing creative tools that may help effective relevant co-productions, ensuring these serves both researchers and non-researchers interests and that motivation is kept alive
P17	Why is essential that everyone is aware and comfortable with CoP Ethic Code?
R17	It is important for any group working together to have an ethic code as a basis for interactions, respect for divergences, mutual expectations clarification and trust building, ensuring an equal and fair participation

P18	How informal, emotional and rational approaches meet together in collaborative ambiances?
R18	Letting trust and empathy flourish, while supporting and balancing the emotional and rational nexus that supports strong relationships, may be crucial to chose the co-production tools and to ensure better participation, communication and collaborative sustainability
P19	Why BINGO CoP worked together in setting the scene and in a shared vision of achievements to attend and nightmares to avoid?
R19	Creating a shared vision of what is important and sharing and setting expectations for common outcomes is crucial to motivate a CoP development and to link shared knowledge to active actions
P20	How can CoP's and Actionable Labs help to enable closer links between research and action?
R20	CoP enables working and building together awareness, perceptions and implications, enabling possibilities to overcome divergences and deadloks and working together in collective actions
P21	Did BINGO CoP's only followed the BINGO project tasks?
R21	BINGO CoP's made room for side-concerns debates, engaging researchers and non-researchers in a cross-fertilisation of different concerns co-production and a cross-learning ambiance, beyond the project specific tasks
P22	How BINGO CoP's challanged participatory approaches through a collaborative choice?
R22	Engagement through a collaborative approach is much more than just a participatory one, by ensuring stability and coherence in the co-production process and by enabling evidence that everyone counts and brings add-value to the whole process
P23	How Co-Productions celebration feed CoP dynamics and development during the BINGO 4 years project?
R23	Keeping the CoP's up to date to what has been already achieved through co-productions and celebrating achievements enabled the CoP's to look forward to what should be yet possible to develop together and to keep active participants willingness and engagement to keep going

P24 **How was CoP Co-Productions been reported and feed the technical BINGO reports?**

R24 Participants in CoP co-productions had access to all relevant information as it was co-produced through a local language *memorandum* of each face-to-face interaction and to the path researchers used to process, integrate and express them in the technical reports

P25 **Why is important to prepare CoP's for the long haul?**

R25 Building a community and evolving in a fruitful collaborative and co-production approach is actually not a short run or even linear process. It demands all set of rational, relational and emotional skills and a great generosity from all participants.

P26 **CoP collaborative moments are always "fun"?**

R26 People usually have "fun" in CoP collaborative moments, mainly due to its informal ambience and creative co-production tools in use. But rhythms are different in co-production processes, not all moments are exciting and not all exciting moments are equal to all participants.

P27 **What did the diferent BINGO CoP's show to have in common?**

R27 BINGO CoP experience showed how learning together with each other makes everyone stronger to address climate change and to be implicated in individual and collective actions

P28 **How can I learn more about BINGO?**

R28 I can follow BINGo at <http://projectbingo.eu/> and in facebook at <https://www.facebook.com/projectbingo.eu/>

Cards

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<p style="text-align: center;">28</p> <p>I can follow BINGo at http://projectbingo.eu/ and in facebook at https://www.facebook.com/projectbingo.eu/</p>	<p style="text-align: center;">20</p> <p>CoP enables working and building together awareness, perceptions and implications, enabling possibilities to overcome divergences and deadlocks and working together in collective actions</p>	<p style="text-align: center;">12</p> <p>Involving local stakeholders in each site since the beginning and all along the project development, gave everyone a voice and enabled to connect results to action according to each site specificity</p>
<p style="text-align: center;">4</p> <p>BINGo produced relevant results in terms of climate predictions, hydrologic models, risk assessment, adaptation measures and stakeholders' engagement and active collaboration</p>	<p style="text-align: center;">23</p> <p>Keeping the CoP's up to date to what has been already achieved through co-productions and celebrating achievements enabled the CoP's to look forward to what should be yet possible to develop together and to keep active participants willingness and engagement to keep going</p>	<p style="text-align: center;">15</p> <p>A solid and diverse CoP base allows fruitful new dialogues, empathy building with each other concerns and "shoes", more robust perception and shared frameworks and collective implication in joint actions</p>
<p style="text-align: center;">7</p> <p>A CoP is a group of significant and diverse stakeholders, who are connected through a common issue, willing to share and join experiences, skills, ideas, resources and interested in creating actions to embrace shared challenges</p>		



<p style="text-align: center;">1</p> <p>BINGO is a EU 2020 Research Project on Climate Change and Water Systems Management</p>	<p style="text-align: center;">10</p> <p>BINGO CoP Roadmap was connected to specific scientific needs and outputs but also made room and was sensitive to the CoP ongoing developments and stakeholders concerns and needs</p>	<p style="text-align: center;">21</p> <p>BINGO CoP's made room for side-concerns debates, engaging researchers and non-researchers in a cross-fertilisation of different concerns co-production and a cross-learning ambience, beyond the project specific tasks</p>
<p style="text-align: center;">14</p> <p>BINGO CoP Facilitator enabled mutual trust ambiances, respecting and holding the specificities of each group, helping to overcome eventual constrains and creating opportunities to address specific CoP challenges</p>	<p style="text-align: center;">5</p> <p>Climate Change is of utmost relevance to water systems management as floods and droughts are more and more severe and frequent and a shift may be expected in average water availability</p>	
	<p style="text-align: center;">28</p> <p>I can follow BINGO at http://projectbingo.eu/ and in facebook at https://www.facebook.com/projectbingo.eu/</p>	<p style="text-align: center;">18</p> <p>Letting trust and empathy flourish, while supporting and balancing the emotional and rational nexus that supports strong relationships, may be crucial to chose the co-production tools and to ensure better participation, communication and collaborative sustainability</p>



	<p style="text-align: center;">2</p> <p>BINGO means: Bringing INnovation to onGOing water management aiming a better future under climate change</p>	<p style="text-align: center;">15</p> <p>A solid and diverse CoP base allows fruitful new dialogues, empathy building with each other concerns and "shoes", more robust perception and shared frameworks and collective implication in join actions</p>
<p style="text-align: center;">22</p> <p>Engagement through a collaborative approach is much more than just a participatory one, by ensuring stability and coherence in the co-production process and by enabling evidence that everyone counts and brings add-value to the whole process</p>	<p style="text-align: center;">11</p> <p>BINGO CoP collaborative workshops ran in very informal ambiances, enabling sharing of experiences and information between researchers and non-researchers and facilitating a process of join outputs co-production</p>	<p style="text-align: center;">6</p> <p>BINGO settled and facilitated a Community of Practice (CoP) in each site, involving researchers, technicians, decision makers and community organizations</p>
	<p style="text-align: center;">27</p> <p>BINGO CoP experience showed how learning together with each other makes everyone stronger to address climate change and to be implicated in individual and collective actions</p>	<p style="text-align: center;">18</p> <p>Letting trust and empathy flourish, while supporting and balancing the emotional and rational nexus that supports strong relationships, may be crucial to chose the co-production tools and to ensure better participation, communication and collaborative sustainability</p>



<p style="text-align: center;">19</p> <p>Creating a shared vision of what is important and sharing and setting expectations for common outcomes is crucial to motivate a CoP development and to link shared knowledge to active actions</p>		<p style="text-align: center;">3</p> <p>The six BINGO Research Sites were: Wupper River Basin (Germany); Troodos Mountains (Cyprus); Badalona (Spain); The Veluwe (The Netherlands); Bergen (Norway); Tejo Basin (Portugal)</p>
	<p style="text-align: center;">23</p> <p>Keeping the CoP's up to date to what has been already achieved through co-productions and celebrating achievements enabled the CoP's to look forward to what should be yet possible to develop together and to keep active participants willingness and engagement to keep going</p>	<p style="text-align: center;">12</p> <p>Involving local stakeholders in each site since the beginning and all along the project development, gave everyone a voice and enabled to connect results to action according to each site specificity</p>
<p style="text-align: center;">7</p> <p>A CoP is a group of significant and diverse stakeholders, who are connected through a common issue, willing to share and join experiences, skills, ideas, resources and interested in creating actions to embrace shared challenges</p>	<p style="text-align: center;">26</p> <p>People usually have "fun" in CoP collaborative moments, mainly due to its informal ambiance and creative co-production tools in use. But rhythms are different in co-production processes, not all moments are exciting and not all exciting moments are equal to all participants.</p>	<p style="text-align: center;">16</p> <p>A workshop storyboard means preparing and choosing creative tools that may help effective relevant co-productions, ensuring these serves both researchers and non-researchers interests and that motivation is kept alive</p>



	<p style="text-align: center;">20</p> <p>CoP enables working and building together awareness, perceptions and implications, enabling possibilities to overcome divergences and deadlocks and working together in collective actions</p>	
<p style="text-align: center;">4</p> <p>BINGO produced relevant results in terms of climate predictions, hydrologic models, risk assessment, adaptation measures and stakeholders' engagement and active collaboration</p>	<p style="text-align: center;">13</p> <p>Designing a double-side communication strategy was essential to respect and ensure time to build feelings of belonging, shared visions and committed goals</p>	<p style="text-align: center;">24</p> <p>Participants in CoP co-productions had access to all relevant information as it was co-produced through a local language memorandum of each face-to-face interaction and to the path researchers used to process, integrate and express them in the technical reports</p>
<p style="text-align: center;">25</p> <p>Building a community and evolving in a fruitful collaborative and co-production approach is actually not a short run or even linear process. It demands all set of rational, relational and emotional skills and a great generosity from all participants.</p>	<p style="text-align: center;">8</p> <p>Relevant and diverse stakeholders have been identified in each site and invited to join several face-to-face collaborative workshops during all the project development, to launch an actionable lab around a shared local challenge and to keep in touch through a virtual Platform</p>	<p style="text-align: center;">9</p> <p>BINGO CoP collaborative workshops followed a join agenda in all research sites: 1) Setting the Scene; 2) Are we prepared? 3) Yes, we are; 4) Solving the unsolvable; 5) Sharing and expanding; 6) ...And after CoP?</p>



BINGO game for the general public

Questions

P1 What is BINGO?

R1 BINGO is a EU 2020 Research Project on Climate Change and Water Systems Management

P2 What does BINGO mean?

R2 BINGO means: Bringing INnovation to onGOing water management

P3 What is the main BINGO vision?

R3 A better future under climate change

P4 Which countries does BINGO involve?

R4 Cyprus, Germany, The Netherlands, Norway, Portugal and Spain

P5 How many partners have been directly involved in BINGO activities?

R5 BINGO directly engaged 20 partners in its activities

P6 How can I learn more about BINGO?

R6 I can follow BINGo at <http://projectbingo.eu/> and in facebook at <https://www.facebook.com/projectbingo.eu/>

P7 BINGO focus its activities in 6 Research Sites. In which RS did BINGO focus its activities in Germany?

R7 Wupper River Basin (Germany Research Site)

P8 BINGO focus its activities in 6 Research Sites. In which RS did BINGO focus its activities in Cyprus?

R8 Troodos Mountains (Cyprus Research Site)

P9 BINGO focus its activities in 6 Research Sites. In which RS did BINGO focus its activities in Spain?

R9 Badalona (Spain Research Site)

P10 BINGO focus its activities in 6 Research Sites. In which RS did BINGO focus its activities in Netherland?

R10 The Veluwe (The Netherlands Research Site)

P11 BINGO focus its activities in 6 Research Sites. In which RS did BINGO focus its activities in Norway?

R11 Bergen (Norway Research Site)

P12 BINGO focus its activities in 6 Research Sites. In which RS did BINGO focus its activities in Portugal?

R12 Tejo Basin (Portugal Research Site)

P13 How can climate change be relevant to water systems management?

R13

Climate Change is of utmost relevance to water systems management as floods and droughts are more and more severe and frequent and a shift may be expected in average water availability

P14

What kind of relevant results did BINGO produce?

R14

BINGO produced relevant results in terms of climate predictions, hydrologic models, risk assessment, adaptation measures and stakeholders' engagement and collaboration

P15

How BINGO climate projections differs from other projections?

R15

BINGO climate projections are not projections! They are predictions made for narrow time and space scales (decadal and local zooms)

P16

Why Hydrologic Models are relevant?

R16

Hydrologic Models are relevant to identify climate predictions impacts to water systems management, *in situ*

P17

What does BINGO Risk Assessment shows?

R17

BINGO Risk Assessment shows how relevant is to invest in preventive board actions to cope with uncertainty and severeness of climate events

P18

What BINGO Adptation Measures stresses?

R18

BINGO Adaptation Measures underlines how climate change collaborative governance is a key issue (but also a challenge!) to engage all different actors to prepare active roadmaps.

P19

How did BINGO involve all the different partners and local stakeholders?

R19	BINGO settled and facilitated a Community of Practice (CoP) in each site, involving researchers, technicians, decision makers and community organisations
P20	How did BINGO CoP made the difference to the project development?
R20	Involving partners and local stakeholders in each research site since the beginning and all along the project development. Also giving everyone a voice to address water issues and to connect results to action
P21	What did the different BINGO Research Sites show to have in common?
R21	BINGO Research Sites showed how different water uses needs conflict in very practical ways and must to be addressed through a collective awareness and perception and a collaborative multilevel taskforce
P22	What did the diferent BINGO CoP's show to have in common?
R22	BINGO CoP experience showed how learning together with each other makes everyone stronger to address climate change and to be implicated in individual and collective actions
P23	What main results on climate prediction and hydrologic models tell us?
R23	Climate predictions may provide a large spectrum of values. But even if in short time there may be no significant changes, severeness and uncertain events may stress quick actions
P24	Take the Tejo river research site as an example. What do the climate predictions tell us?
R24	Climate predictions for Tejo tell us that we have a range of equally probable results, between lower to higher precipitation averages in relation to past. So adaptation plans must take these different possible realities into account.
P25	What main results on risk assessment tell us?

R25

Risks are not only connected to water scarcity and/or floods, but also to water needs for the different uses: i.e. how water uses conflicts are anticipated and managed?; how water systems decisions are made and integrated at different multi-level decision scales?

P26

What do the main results on adaptive measures tell us?

R26

Adaptation measures do not only have a risk reduction effect but also broader influence on society and the environment.

P27

What are the main governance challenges to climate adaptation across Europe?

R27

Effectively integrate climate change adaptation in existing policy and governance frameworks. And make it a primary objective with sufficient resources devoted to it.

P28

What can I do for a better future under climate change?

R28

My example and action is relevant and I shouldn't give up of being proactive, even if I feel my action is yet a little drop in the ocean

Cards



 <p>BINGO a better future under CLIMATE CHANGE</p>	<p>20</p> <p>Involving partners and local stakeholders in each research site since the beginning and all along the project development. Also giving everyone a voice to address water issues and to connect results to action</p>	 <p>BINGO a better future under CLIMATE CHANGE</p>
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 <p>BINGO a better future under CLIMATE CHANGE</p>	<p style="text-align: center;">27</p> <p>Effectively integrate climate change adaptation in existing policy and governance frameworks. And make it a primary objective with sufficient resources devoted to it.</p>	<p style="text-align: center;">18</p> <p>BINGO Adaptation Measures underlines how climate change collaborative governance is a key issue (but also a challenge!) to engage all different actors to prepare active roadmaps.</p>



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<p>10</p> <p>The Veluwe (The Netherlands Research Site)</p>	<p>2</p> <p>BINGO means: Bringing INnovation to onGOing water management</p>	 <p>BINGO a better future under CLIMATE CHANGE</p>
<p>26</p> <p>Adaptation measures do not only have a risk reduction effect but also broader influence on society and the environment.</p>	<p>23</p> <p>Climate predictions may provide a large spectrum of values. But even if in short time there may be no significant changes, severeness and uncertain events may stress quick actions</p>	<p>15</p> <p>BINGO climate projections are not projections! They are predictions made for narrow time and space scales (decadal and local zooms)</p>
<p>7</p> <p>Wupper River Basin (Germany Research Site)</p>	 <p>BINGO a better future under CLIMATE CHANGE</p>	<p>18</p> <p>BINGO Adaptation Measures underlines how climate change collaborative governance is a key issue (but also a challenge!) to engage all different actors to prepare active roadmaps.</p>



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<p>13</p> <p>Climate Change is of utmost relevance to water systems management as floods and droughts are more and more severe and frequent and a shift may be expected in average water availability</p>	<p>21</p> <p>BINGO Research Sites showed how different water uses needs conflict in very practical ways and must to be addressed through a collective awareness and perception and a collaborative multilevel taskforce</p>	 <p>BINGO a better future under CLIMATE CHANGE</p>
<p>16</p> <p>Hydrologic Models are relevant to identify climate predictions impacts to water systems management, in situ</p>	<p>5</p> <p>BINGO directly engaged 20 partners in its activities</p>	<p>24</p> <p>Climate predictions for Tejo tell us that we have a range of equally probable results, between lower to higher precipitation averages in relation to past. So adaptation plans must take these different possible realities into account.</p>
 <p>BINGO a better future under CLIMATE CHANGE</p>	<p>8</p> <p>Troodos Mountains (Cyprus Research Site)</p>	<p>27</p> <p>Effectively integrate climate change adaptation in existing policy and governance frameworks. And make it a primary objective with sufficient resources devoted to it.</p>



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<p>1</p> <p>BINGO is a EU 2020 Research Project on Climate Change and Water Systems Management</p>	<p>20</p> <p>Involving partners and local stakeholders in each research site since the beginning and all along the project development. Also giving everyone a voice to address water issues and to connect results to action</p>	 <p>BINGO a better future under CLIMATE CHANGE</p>
<p>4</p> <p>Cyprus, Germany, The Netherlands, Norway, Portugal and Spain</p>	<p>28</p> <p>My example and action is relevant and I shouldn't give up of being proactive, even if I feel my action is yet a little drop in the ocean</p>	<p>12</p> <p>Tejo Basin (Portugal Research Site)</p>
 <p>BINGO a better future under CLIMATE CHANGE</p>	<p>17</p> <p>BINGO Risk Assesment shows how relevant is to invest in preventive board actions to cope with uncertainty and severeness of climate events</p>	<p>9</p> <p>Badalona (Spain Research Site)</p>



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<p>4</p> <p>Cyprus, Germany, The Netherlands, Norway, Portugal and Spain</p>	<p>14</p> <p>BINGO produced relevant results in terms of climate predictions, hydrologic models, risk assessment, adaptation measures and stakeholders' engagement and collaboration</p>	<p>23</p> <p>Climate predictions may provide a large spectrum of values. But even if in short time there may be no significant changes, severeness and uncertain events may stress quick actions</p>
 <p>BINGO a better future under CLIMATE CHANGE</p>	<p>8</p> <p>Troodos Mountains (Cyprus Research Site)</p>	<p>28</p> <p>My example and action is relevant and I shouldn't give up of being proactive, even if I feel my action is yet a little drop in the ocean</p>



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<p>13</p> <p>Climate Change is of utmost relevance to water systems management as floods and droughts are more and more severe and frequent and a shift may be expected in average water availability</p>	<p>5</p> <p>BINGO directly engaged 20 partners in its activities</p>	 <p>BINGO a better future under CLIMATE CHANGE</p>
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<p style="text-align: center;">11</p> <p>Bergen (Norway Research Site)</p>	 <p>BINGO a better future under CLIMATE CHANGE</p>	<p style="text-align: center;">16</p> <p>Hydrologic Models are relevant to identify climate predictions impacts to water systems management, in situ</p>
<p style="text-align: center;">25</p> <p>Risks are not only connected to water scarcity and/or floods, but also to water needs for the different uses: i.e. how water uses conflicts are anticipated and managed?; how water systems decisions are made and integrated at different multi-level decision scales?</p>	<p style="text-align: center;">22</p> <p>BINGO CoP experience showed how learning together with each other makes everyone stronger to address climate change and to be implicated in individual and collective actions</p>	<p style="text-align: center;">19</p> <p>BINGO settled and facilitated a Community of Practice (CoP) in each site, involving researchers, technicians, decision makers and community organisations</p>

