

# Default Question Block

## Trade-offs and Synergies in Designing for Resilience and Sustainability

OMB Control # 0693-0078 Expiration Date 7/31/2022

You were selected to participate in this study given your professional expertise. In this project you will answer questions and generate individual concept maps that represent your understanding of relative trade-offs and synergies in designing for resilience and sustainability.

Your responses will lead to greater clarity across these domains that are both critical to increasingly cost-effective strategies for mitigating damage from extreme disturbances and persistent stresses, such as extreme weather events and continued climate change impacts. In this study you will be asked questions about your background, field of expertise, and understanding of resilience and sustainability concepts. Please know that there are no right or wrong answers to any of these questions, we just want your experience and opinions.

The concept mapping activity will take no more than one hour of your time to complete. There will be an optional focus group in which the group's aggregated concept map will be presented for confirmation.

If you feel uncomfortable answering any of the questions, you can skip them, or stop participation at any time. Your participation is voluntary and without compensation. If you decide to participate in the study, you may withdraw your consent and stop participation at any time without penalty.

Your responses will never be linked to your individual identity. Instead, findings will be attributed to characteristics associated with your background. Information collected in this study may be shared by NIST with researchers at NIST or with researchers outside NIST. The information that you provide may be used in future research. Any future research will include protections to ensure that both the sharing and use of the information complies with the conditions that I just described. There are NO KNOWN RISKS or direct benefits to you.

We hope to gain more knowledge on how sustainability and resilience are conceptualized to better guide allocation of resources that can help researchers, practitioners, and government refine planning for future extreme weather and climate change associated impacts.

**To consent, please click “yes” and complete this brief optional survey. [At the end of the survey you can schedule a time to complete the concept mapping activity.](#)**

- Yes, I would like to participate in this study
- No, I decline participation

**Thanks for agreeing to participate in this study! Please complete this brief survey:**

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A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0693-0078. Without this approval, we could not conduct this information collection. Public reporting for this information collection is estimated to be approximately eight minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the National Institute of Standards and Technology at: 100 Bureau Drive, Gaithersburg, MD 20899, Attn: Dr. Jennifer Helgeson, Associate Program Manager for the NIST Community Resilience Program, NIST Engineering Laboratory; or contact at [jennifer.helgeson@nist.gov](mailto:jennifer.helgeson@nist.gov).

In your own words define RESILIENCE. Please write a short definition.

In your own words please define SUSTAINABILITY. Please write a short definition.



Please provide up to 10 keywords for resilience and/or sustainability (Please add a minimum of five keywords).

Keyword 1

Keyword 2

Keyword 3

Keyword 4

Keyword 5

Keyword 6

Keyword 7

Keyword 8

Keyword 9

Keyword 10

Please organize your keywords into the following categories  
(you can drag and drop)

Items

- » Keyword 1
- » Keyword 2
- » Keyword 3
- » Keyword 4
- » Keyword 5
- » Keyword 6
- » Keyword 7
- » Keyword 8
- » Keyword 9
- » Keyword 10

Relevant to Sustainability

Relevant to Resilience

Relevant to both Resilience and  
Sustainability

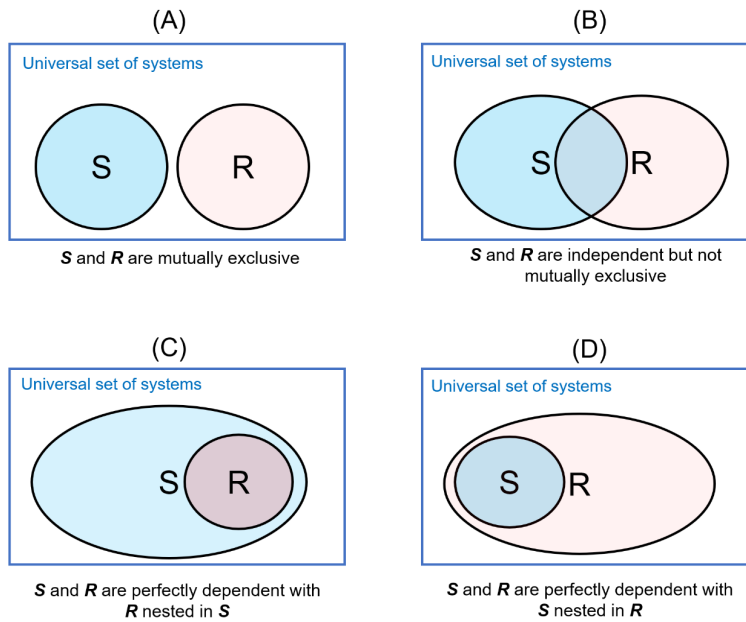
Which of the following statements do you agree with most?  
Select only one.

- Resilience of the system is necessary, but not sufficient, for sustainability
- Resilience of the system is sufficient, but not necessary, for sustainability
- Resilience of the system is neither necessary nor sufficient for sustainability
- Resilience is both necessary and sufficient for sustainability

Do you agree or disagree with the following statements?

	True	False
Systems that are resilient may not be sustainable	<input type="radio"/>	<input type="radio"/>
Systems that are not resilient are not sustainable	<input type="radio"/>	<input type="radio"/>
Systems that are not sustainable may be resilient	<input type="radio"/>	<input type="radio"/>

Which of the following diagrams most accurately describes the relationship between resilient and sustainable systems?  
(Notes:  $R$  = Resilient systems;  $S$  = Sustainable systems)



- A
- B
- C
- D
- None of the above (Please explain)

Please confirm your preferred email address:

Which of the following categories most accurately describes your current position(s)? Select all that apply

- Student (undergraduate)
- Student (Graduate)
- Teaching/Research Assistant
- Postdoctoral Researcher
- Adjunct Professor
- Assistant Professor
- Associate Professor
- Full Professor
- Private Industry
- Consulting
- Government (Federal)
- Government (State)
- Government (Local)
- Other (Please specify):

Click to write the question text

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Performing arts          | <input type="checkbox"/> Sociology     | <input type="checkbox"/> Divinity                           |
| <input type="checkbox"/> Visual arts              | <input type="checkbox"/> Social work   | <input type="checkbox"/> Education                          |
| <input type="checkbox"/> History                  | <input type="checkbox"/> Biology       | <input type="checkbox"/> Engineering and technology         |
| <input type="checkbox"/> Languages and literature | <input type="checkbox"/> Chemistry     | <input type="checkbox"/> Environmental studies and forestry |
| <input type="checkbox"/> Law                      | <input type="checkbox"/> Earth science | <input type="checkbox"/> Ecology                            |
| <input type="checkbox"/> Philosophy               | <input type="checkbox"/> Space science | <input type="checkbox"/>                                    |

<input type="checkbox"/> Theology	<input type="checkbox"/> Physics	<input type="checkbox"/> Family and consumer science
<input type="checkbox"/> Anthropology	<input type="checkbox"/> Computer science	<input type="checkbox"/> Human physical performance and recreation
<input type="checkbox"/> Archaeology	<input type="checkbox"/> Mathematics	<input type="checkbox"/> Journalism, media studies, and communication
<input type="checkbox"/> Economics	<input type="checkbox"/> Agriculture	<input type="checkbox"/> Library and museum studies
<input type="checkbox"/> Geography	<input type="checkbox"/> Architecture and design	<input type="checkbox"/> Medicine and health
<input type="checkbox"/> Political science	<input type="checkbox"/> Urban planning / Town planning	<input type="checkbox"/> Military sciences
<input type="checkbox"/> Psychology	<input type="checkbox"/> Business	<input type="checkbox"/> Public administration/policy
		<input type="checkbox"/> Other (Please specify)
		<input type="checkbox"/> <input style="width: 200px; height: 20px;" type="text"/>

How many years have you been working on issues related to resilience and/or sustainability? (Enter a number)

Please explain how your work is related to resilience and/or sustainability.

How much of your work do you consider to be interdisciplinary in nature? (interdisciplinary indicates that you work with at

least one person from another discipline, or the work produced blurs lines between disciplines)

- None at all
- A little
- A moderate amount
- A lot
- A great deal

What spatial scale does the majority of your work address?  
Please select one.

- single building
- single infrastructure system
- building clusters
- local/municipal level
- state or territory
- national
- international
- Other (Please provide additional details):

Please provide some examples of how you apply principles of sustainability and resilience in your personal life?



Do you belong to a professional organization with a focus on resilience and/or sustainability?

If yes, please list them below.

In which region of the world have you spent the majority of your adult life (18+ years of age)?

Please enter dates and times that work best for you to complete the concept mapping activity (We will follow up on that with you to schedule a short meeting).

Available option 1

Available option 2

Available option 3

Available option 4

Available option 5

Thank you for your time and participation. If you would like a copy of your responses emailed to you, please click “yes” below.

Yes

No

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