

Go to the bottom of this page to find the pairwise comparison form.

After you are done filling the form don't forget to scroll down and calculate the consistency of your input. Thank you.

```
In [432]: from IPython.display import display, Markdown, clear_output, HTML
import ipywidgets as widgets
import numpy as np
from numpy.linalg import eig
import base64
import pandas as pd
```

```
In [433]: #List of criteria
ctr_list = ['The reinforcement process needs ensure safety for residents as per NPR 9998 guidelines.',
            'Local reinforcement plans needs to be developed considering building typology.',
            'The reinforcement process needs to protect heritage and historical places.',
            'The reinforcement process needs to foster social cohesion and sense of place.',
            'The reinforcement process needs to be economically feasible for the region and the state.',
            'The reinforcement process needs include measures for climate adaptation.

ctr_num = len(ctr_list) #number of criteria

#initiating comparison list variable
comps = []

#determining comparison combinations by looping through
#the list of criteria and appending to comparisons
```

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```
In [13]: from IPython.display import display, Markdown, clear_output, HTML
import ipywidgets as widgets
import numpy as np
from numpy.linalg import eig
import base64
import pandas as pd
```

```
In [14]: #List of criteria
ctr_list = ['The reinforcement process needs ensure safety for residents as per NPR 9998 guidelines.',
            'Local reinforcement plans needs to be developed considering building typology.',
            'The reinforcement process needs to protect heritage and historical places.',
            'The reinforcement process needs to foster social cohesion and sense of place.',
            'The reinforcement process needs to be economically feasible for the region and the state.',
            'The reinforcement process needs include measures for climate adaptation.

ctr_num = len(ctr_list) #number of criteria

#initiating comparison list variable
comps = []

#determining comparison combinations by looping through
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Scroll

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In [433]: #list of criteria
criter_list = ['The reinforcement process needs ensure safety for residents as per NPR 9998 guidelines.',
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              'The reinforcement process needs to foster social cohesion and sense of place.',
              'The reinforcement process needs to be economically feasible for the region and the state.',
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criter_num = len(criter_list) #number of criteria

#initiating comparison list variable
comps = []

#determining comparison combinations by looping through
#the list of criteria and appending to comparisons
```

```
button.on_click(on_button_clicked) #run function on_button_clicked with the click of the calculate button

import warnings
warnings.filterwarnings("ignore") #to avoid error message for complex numbers
```

Start filling the form here.

Name of Stakeholder Group

BZK

1. Which objective do you agree with more?

- ☒ The reinforcement process needs ensure safety for residents as per NPR 9998 guidelines.
- ☐ Local reinforcement plans needs to be developed considering building typology.

How important is your selected objective relative to the other?

1 - Equal Importance

2. Which objective do you agree with more?

- ☒ The reinforcement process needs ensure safety for residents as per NPR 9998 guidelines.
- ☐ The reinforcement process needs to protect heritage and historical places.

## If you need explanation of the rating scales.

Rating Scale	Definition	Explanation
1	Equal importance	Two elements contribute equally to the objective
2	Weak	Between equal and moderate
3	Moderate importance	Experience and judgment slightly favor one element over another
4	Moderate plus	Between moderate and strong
5	Strong importance	Experience and judgment strongly favor one element over another
6	Strong plus	Between strong and very strong
7	Very strong or demonstrated importance	An element is favored very strongly over another; its dominance demonstrated in practice
8	Very, very strong	Between very strong and extreme
9	Extreme importance	The evidence favoring one element over another is one of the highest possible order or affirmation

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How important is your selected objective relative to the other?

1 - Equal Importance

15. Which objective do you agree with more?

☒ The reinforcement process needs to be economically feasible for the region and the state.

☐ The reinforcement process needs include measures for climate adaptation.

How important is your selected objective relative to the other?

1 - Equal Importance

**Calculate**

**Click the calculate button once you're done filling the form.**

**Don't forget to calculate and check consistency before downloading the data.**

**Thank you!**

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15. Which objective do you agree with more?

- ☒ The reinforcement process needs to be economically feasible for the region and the state.
- ☐ The reinforcement process needs include measures for climate adaptation.

How important is your selected objective relative to the other?

9 - Extreme importance

Calculate

Consistency Ratio, Cr, greater than 0.1. It has to be lower than 0.1.  
Please check your answers for consistency and calculate again!  
Consistency: 0.1039

**Don't forget to calculate and check consistency before downloading the data.**

**Thank you!**

If you get this message check your answers and calculate again.

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How important is your selected objective relative to the other?

1 - Equal Importance

Calculate

Consistency: 0.0

Weight for: The reinforcement process needs ensure safety for residents as per NPR 9998 guidelines. : 0.1667

Weight for: Local reinforcement plans needs to be developed considering building typology. : 0.1667

Weight for: The reinforcement process needs to protect heritage and historical places. : 0.1667

Weight for: The reinforcement process needs to foster social cohesion and sense of place. : 0.1667

Weight for: The reinforcement process needs to be economically feasible for the region and the state. : 0.1667

Weight for: The reinforcement process needs include measures for climate adaptation. : 0.1667

[Download 'resultsBZK.csv' file](#)

Download file

**Don't forget to calculate and check consistency before downloading the data.**

**Send the results back to us.**