Participatory System Combining Town Planning and Science
The 2PS CiTy

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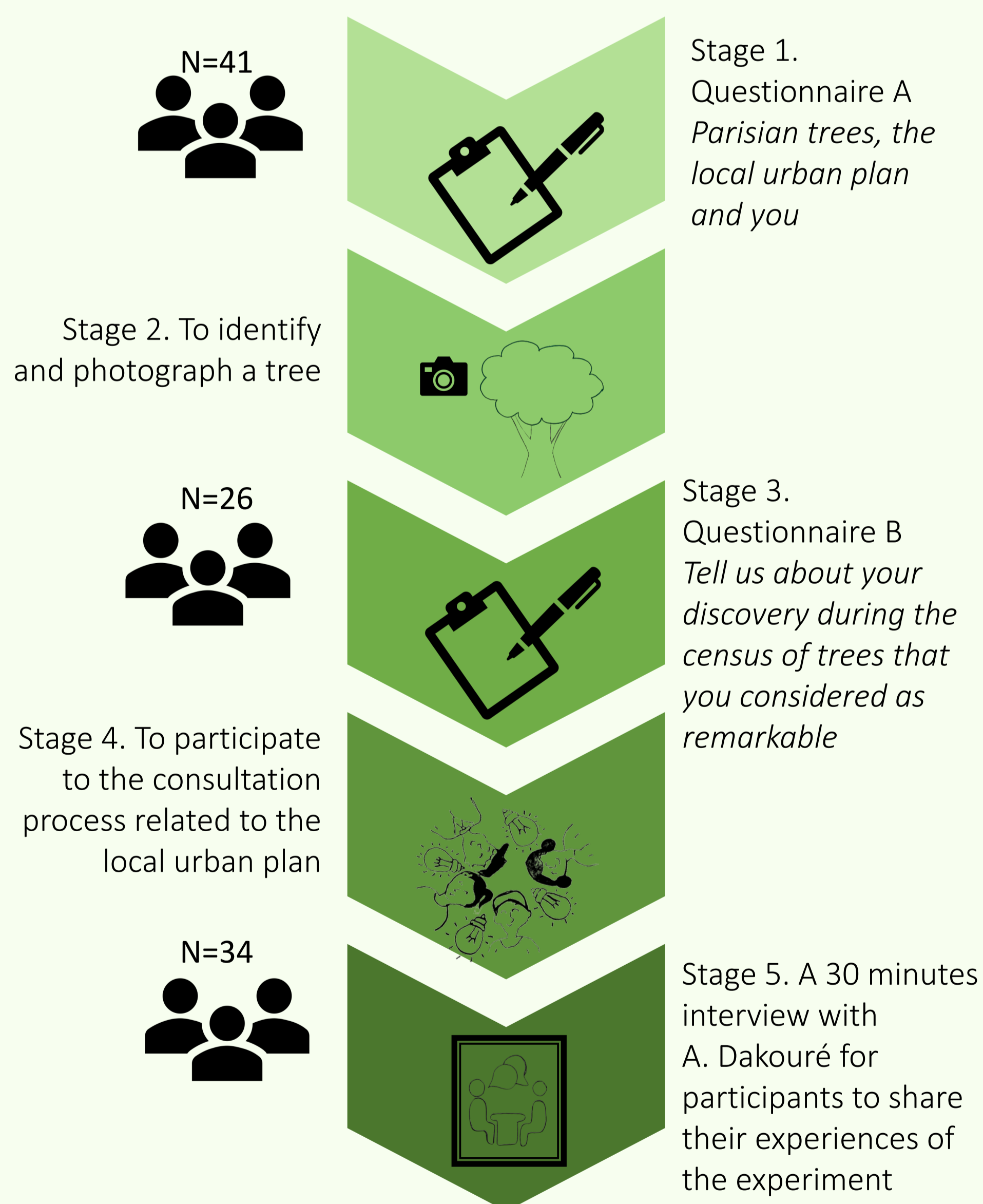[3]Une Fabrique de la Ville, Paris, France

Poster produced for the Ecocity World Summit, 6-8 June 2023. Barbican centre, London, UK

Introduction

In the present context of ecological and social crises, cities are facing major issues. Local governments should adapt urban planning while committing city-dwellers in decision making toward sustainability.

As part of the revision of the Local Urban Plan (LUP) of Paris, France, toward a Bioclimatic LUP, we elaborated the original experimental "Participatory System Combining Town Planning and Science" (referred as the 2PS-CiTy). 2PS-CiTy governance system crosses participatory science on urban trees with urban consultation within the LUP revision in Paris. Considering, urban trees provide numerous ecosystem services that should improve urban environmental quality and human well being while sustainably bringing together people and nature, we tested the hypothesis that the relationship of city dwellers with trees can be a lever for motivating people to engage in urban consultation.
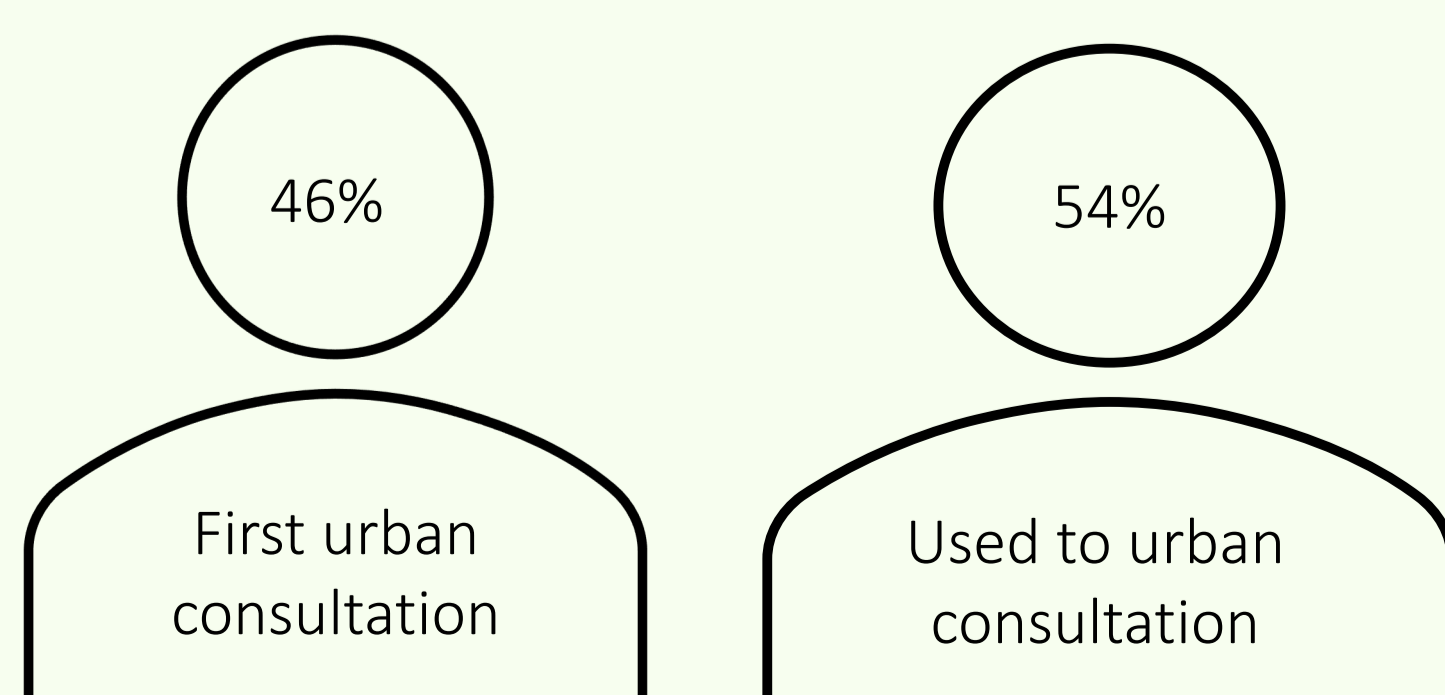
Experimentation's stages ①

The participants of 2PS-CiTy met two conditions: they are >18-yr old and they live in Paris. The 2 PS-CiTy is a 5 stages process :

N=41

Stage 1. Questionnaire A
Parisian trees, the local urban plan and you

Stage 2. To identify and photograph a tree

N=26

Stage 3. Questionnaire B
Tell us about your discovery during the census of trees that you considered as remarkable

Stage 4. To participate to the consultation process related to the local urban plan

N=34

Stage 5. A 30 minutes interview with A. Dakouré for participants to share their experiences of the experiment

Participants' experience of urban consultation ②
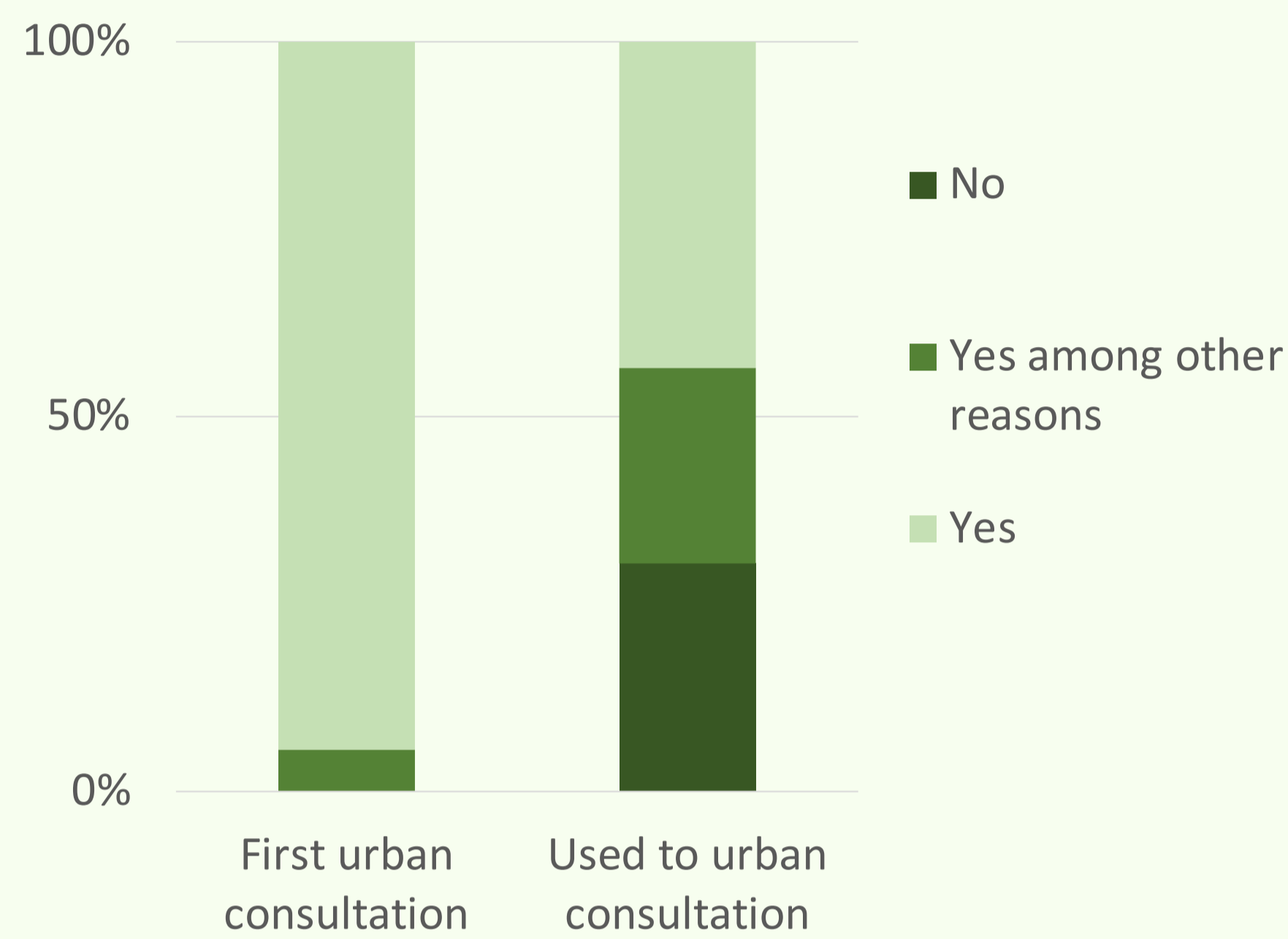
The 2 PS CiTy governance system attracted Parisians who had never before engaged in an urban consultation process.

46% First urban consultation

54% Used to urban consultation

Result of stage 2

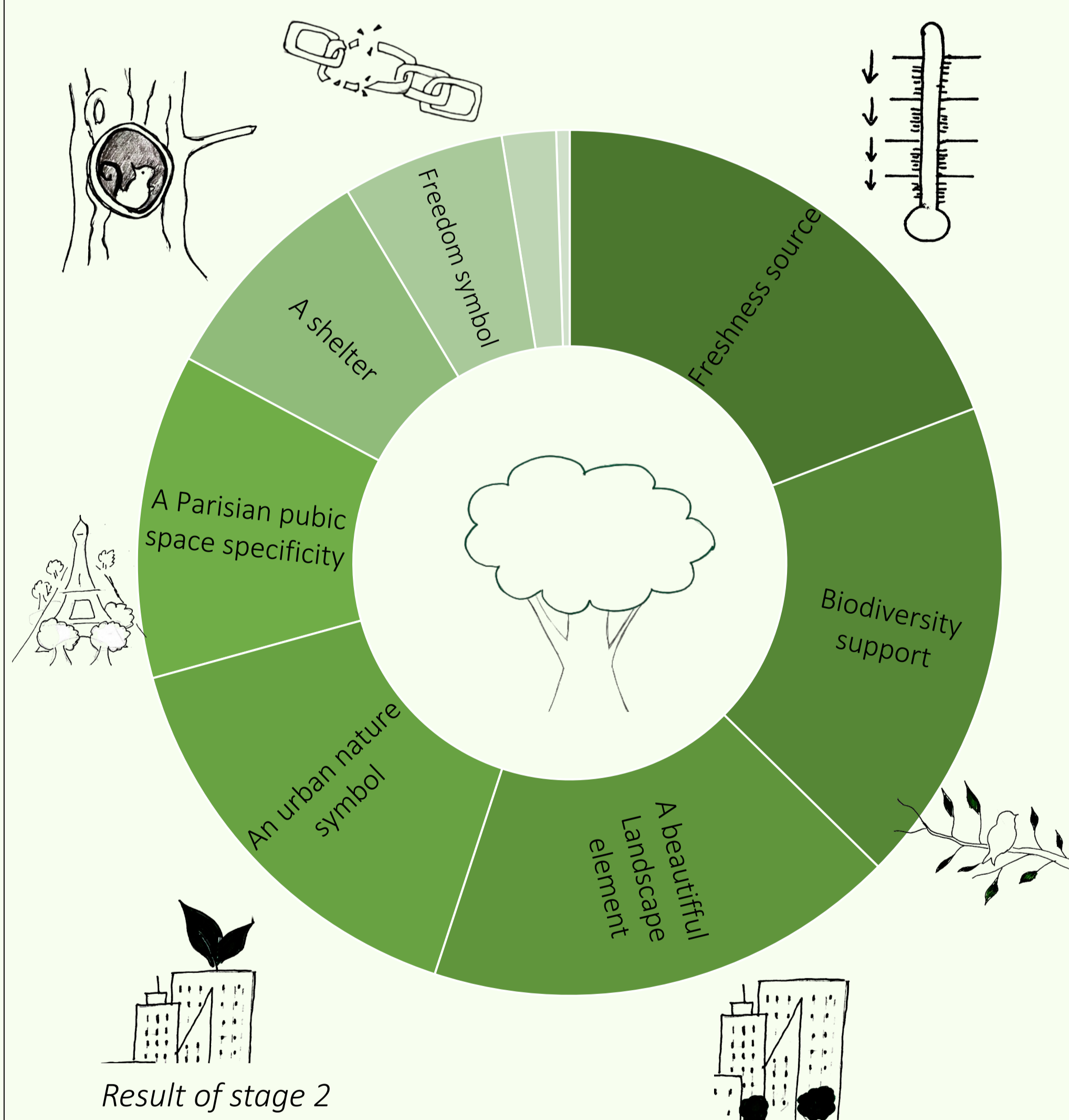## Participants motivated by tree preservation ③

The major motivation for participating to the 2PS-City was the preservation of remarkable trees for 83% of all respondents, and for 100% of the first contributors.

■ No
■ Yes among other reasons
■ Yes

First urban consultation / Used to urban consultation

Result of stage 2

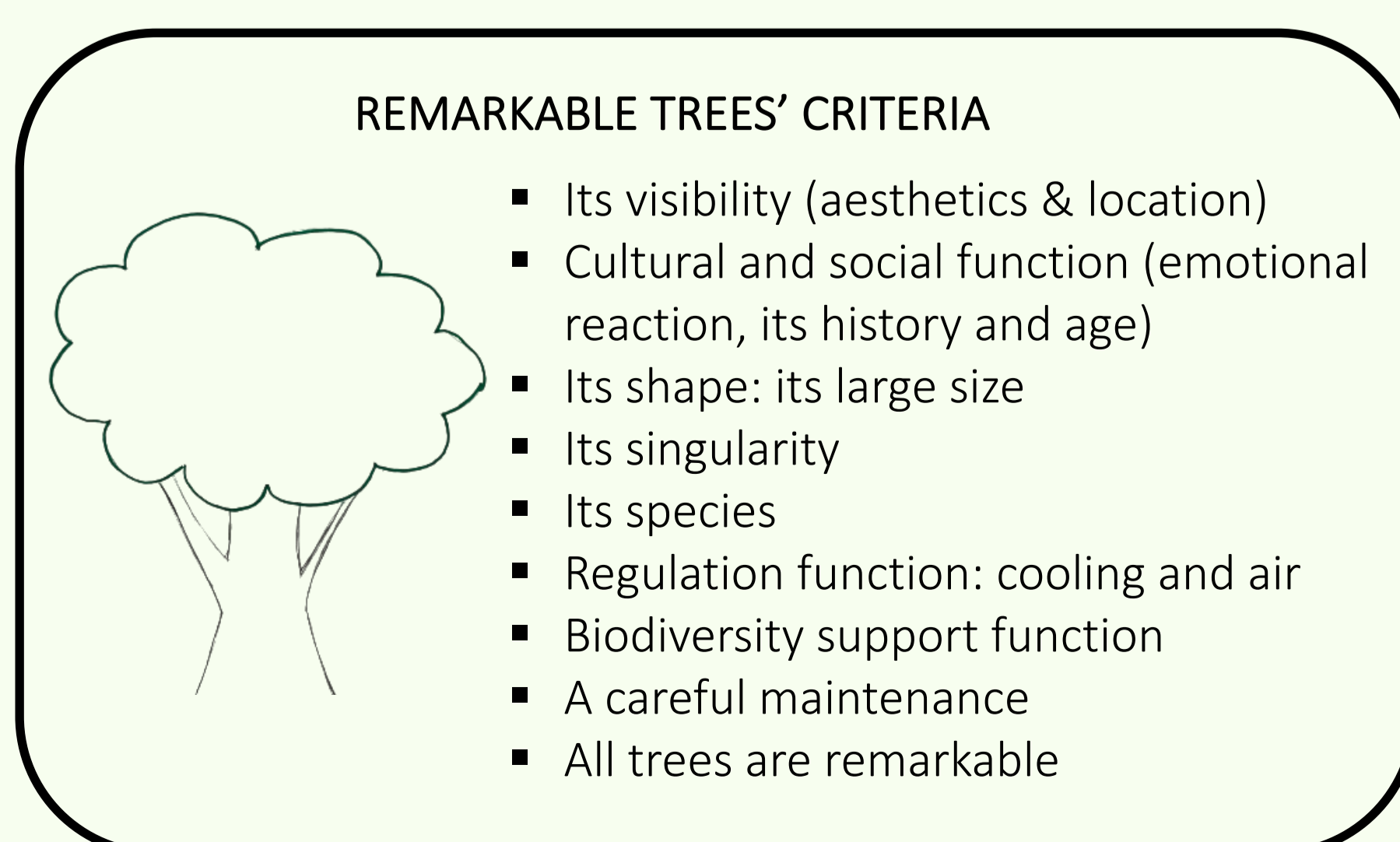## Participants' representation of trees ④

The participants' representation of trees was mostly associated to the ecosystem services provided by trees: 1) as a source of refreshment (regulation service), 2) as a support of biodiversity (support service), 3) as an esthetic element of urban landscape and 4) as a symbol of nature in town (cultural service).

Result of stage 2

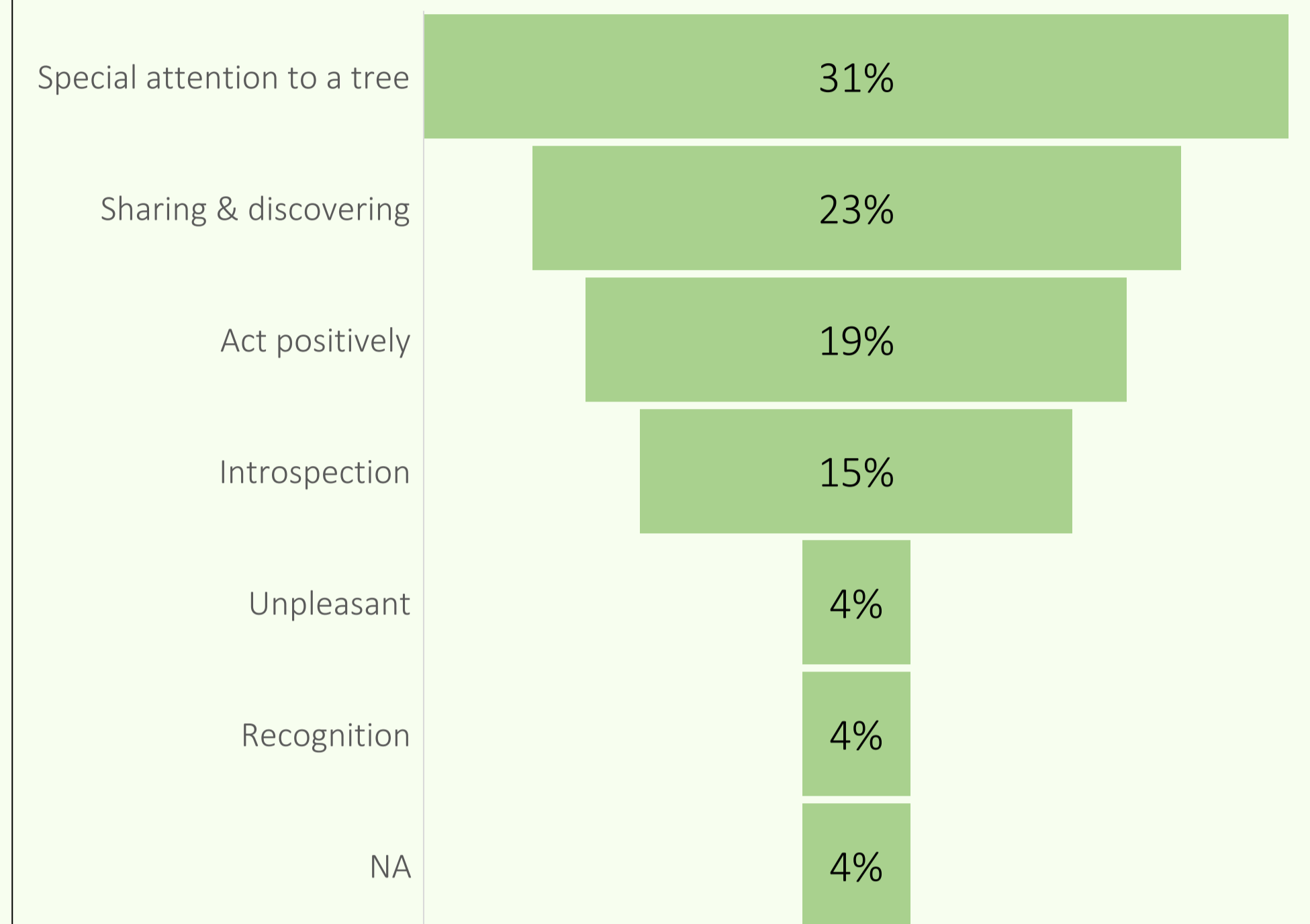## Definition of remarkable trees for participants ⑤

Participants rely on 9 criteria to define remarkable trees whose preservation stimulates the commitment of 2 PS CiTy.

REMARKABLE TREES' CRITERIA
- Its visibility (aesthetics & location)
- Cultural and social function (emotional reaction, its history and age)
- Its shape: its large size
- Its singularity
- Its species
- Regulation function: cooling and air
- Biodiversity support function
- A careful maintenance
- All trees are remarkable

Result of stage 2

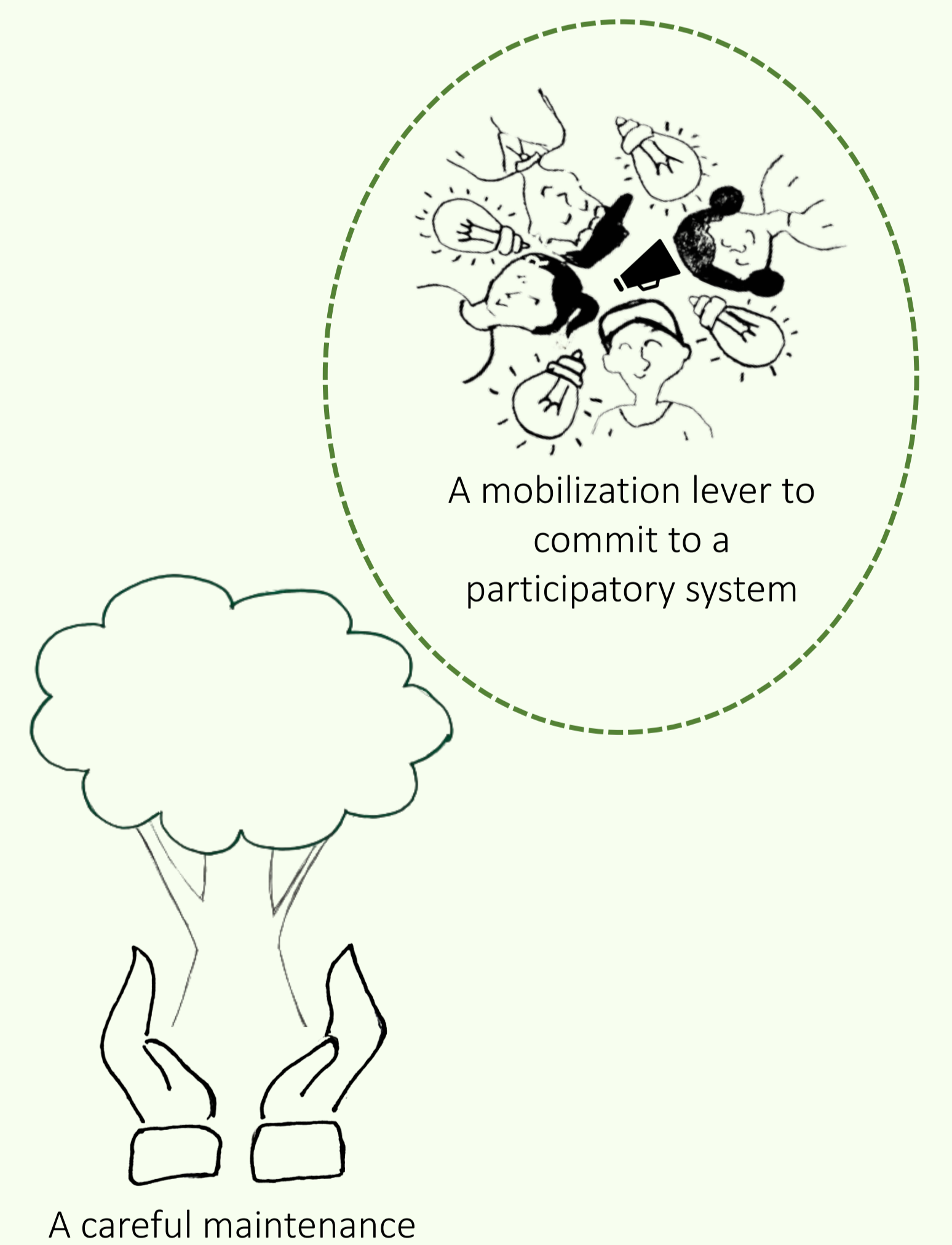## The tree census, a shared benefit ⑥

The overwhelming majority of participants gave positive feedback about the tree census experience. They testify that they experienced or had the impression of a…

Special attention to a tree	31%
Sharing & discovering	23%
Act positively	19%
Introspection	15%
Unpleasant	4%
Recognition	4%
NA	4%

Result of stage 4

Conclusion

The positive representation urban trees benefit from city dwellers appears to be a lever for enhancing people commitment in urban consultation processes. Within our new 2PS-CiTy governance system, urban trees provide a new ecosystem service in town: the democratic mobilisation in local gouvernance

A mobilization lever to commit to a participatory system

A careful maintenance

Contact informations

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