

#iaia21



VISUAL TOOLS IN TODAY'S EIA PUBLIC PARTICIPATION

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Visual Tools in public participation: Why? How to design? Who to involve?

VISUAL TOOLS IN TODAY'S EIA PUBLIC PARTICIPATION







Calgary, Canada



Calgary, Canada



Calgary, Canada



©Blangy et al, 2008





(ongoing) PhD research – data analysis

TEXT FROM DOCUMENTS

QUALITATIVE &
QUANTITATIVE DATA
FROM **SURVEYS**

NOTES FROM OBSERVATIONS

TRANSCRIPTIONS FROM INTERVIEWS



Reporting on the use of visual tools

environmental academia literature review & studies





environmental consultants *direct work with stakeholders*



PPGIS

more basic, low technology tools

Environmental Impact Assessment Review 83 (2020) 106413



Contents lists available at ScienceDirect

Environmental Impact Assessment Review

journal homepage: www.elsevier.com/locate/eiar



You see what I mean? - A review of visual tools for inclusive public participation in EIA decision-making processes

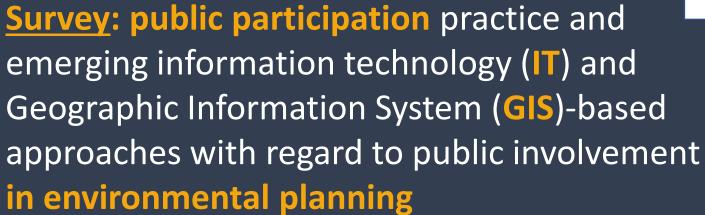


Ana Roque de Oliveira*, Maria Partidário

CEG-IST, Instituto Superior Técnico, Universidade de Lisboa, Portugal



González et al. (2008)







SURVEY



Rovaniemi, Finland December 2017



January-March 2018

Exploratory Survey- Use of Visual tools in Public Participation (PP)

PhD Research by Ana Roque de Oliveira (IST – University of Lisbon, Portugal)

| | PLEASE CONSIDER YOUR MOST RECENT (last 2 years) PP EXPERIENCE in the context of an Environmental Impact Assessment (EIA) or in any other decision-making process |
|-------|--|
| | 1 – What is/was your role? (check all that apply) |
| | Project promoter Administration/Government Public/NGO/other interested or affected party |
| щ | 2 - Which visual tools were used by the proponent in the project presentation? (check all that apply) |
| E DON | Maps Diagrams Photographs Drawings Paintings Graphs Graphs |
| YOU'V | Videos Oscale Models Other (please specify) |
| VHA | |
| | 3 – Indicate which visual tools were used by the public/NGO/other interested/affected parties to present comments and participate in the public debate (check all that apply) |
| | Maps Diagrams Photographs Drawings Paintings Graphs |
| | Videos Scale Models Other (please specify) |
| ļ | |
| | PLEASE CONSIDER YOUR OVERALL PP EXPERIENCE. If you think visual tools are <u>relevant</u> , |
| ١ | 4 – Do you see any advantage(s) of the use of visual tools? (If yes, please specify) |

Thank you for your cooperation!

Please return this survey to Ana Roque de Oliveira during the workshop *Tomorrow's Arctic EIA*, or via email: anaroliveira@tecnico.ulisboa.pt

Exploratory Survey- Use of Visual tools in Public Participation (PP)

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| | • |
| | • |
| | 5 – Do you see any disadvantage(s) of the use of visual tools? (If yes, please specify) |
| | |
| | 6 – How can one improve the way visual tools (VT) are used in PP? (check all that apply) |
| | Keep VT simple (do not include excessive information) Use adequate scales (e.g., in maps, graphs) |
| | Combine VT with explanatory text (so that VT are less ambiguous) O Use VT that respect the public's culture |
| | Una VE that are also the mobile literary land. |



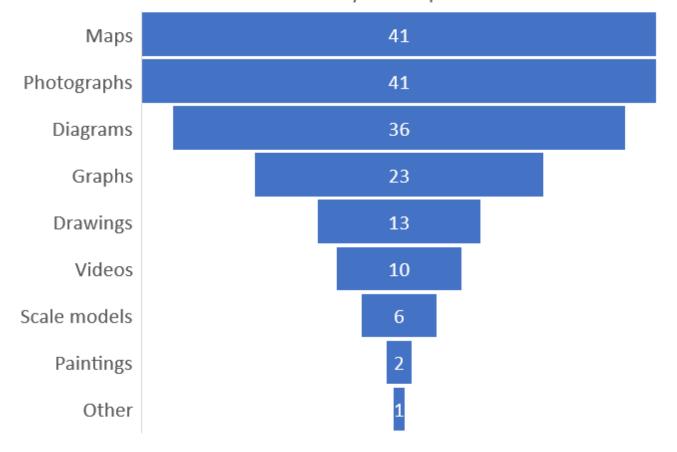
70% responses (n=42)



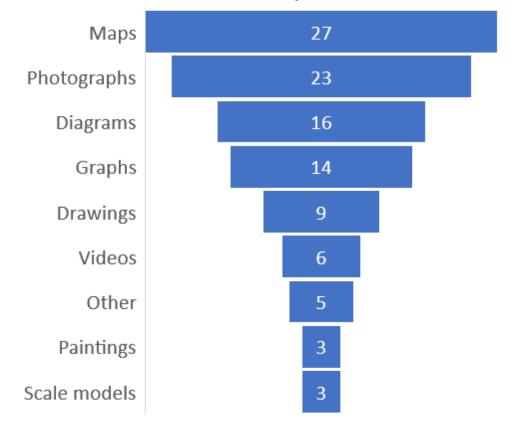
4% responses (n=9)



Visual Tools used by the Proponent

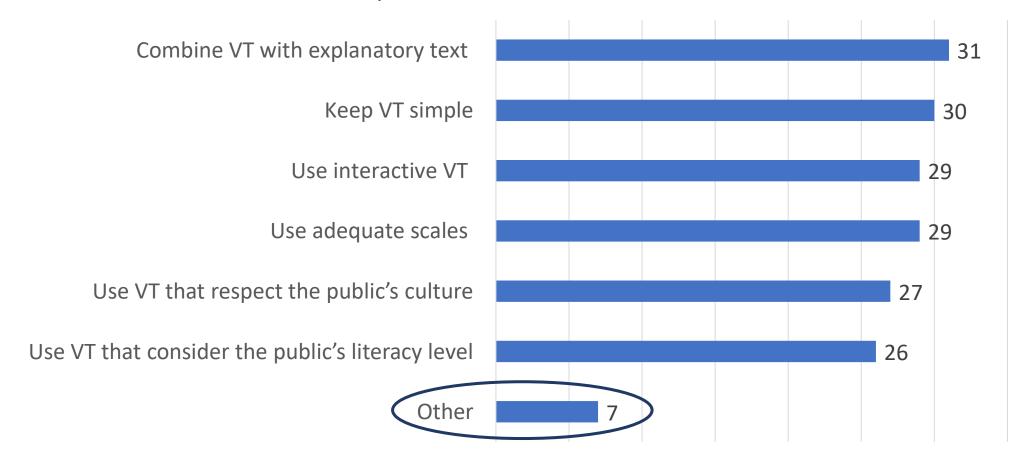


Visual Tools used by the Public





How to Improve the use of Visual Tools in PP?





IMPROVEMENTS TO VISUAL TOOLS

OTHER

Use **color maps** that are visible to **color blind** people Use only **relevant maps, graphs** (avoid confusion and manipulation)

Consider **what is important to the audience**, e.g., for Inuit, need to see key areas, so photos are most helpful

Show to reference groups before event (check audience's perceptions)

Acknowledge **complexity of systems**Many participants will want **more information** - they do not want things
"dumbed down".



BENEFITS (+) AND CHALLENGES (-) OF VISUAL TOOLS

COGNITIVE ISSUES



CULTURAL/SOCIAL ISSUES

EMOTIONAL ISSUES



COGNITIVE ISSUES

Efficiency of communication



Understanding context & projects



Data manipulation, propaganda





CULTURAL/

SOCIAL ISSUES

Familiarity with visual tools

Maps, photos and videos are **familiar** to indigenous peoples in my region

Lack of cultural concepts, values

Visual tools need to have cultural translation

Framing effect

Visual tools need to be **explained** not to confuse the public









Emotions can be awakened



Critical thinking may be clouded by emotions



Get the message across in a more powerful way



EMOTIONAL ISSUES

Visual tools draw people's attention





CONCLUSIONS

- Visual Tools may promote inclusive public participation
 Key concepts: Perception / Integration / Emotions &
 Decision-Making
- Visual Tools should be adequate to the stakeholders
 Key concepts: Technical, Cognitive, Social/Cultural, Emotional issues



RECOMMENDATIONS

Move away from the "one size fits all" approach





RECOMMENDATIONS

Move away from the "one size fits all" approach

Allow for stakeholders' active participation in the choice and design of the Visual Tool

Visual tools are good if the audience chooses them





Let's continue the conversation!

Post questions and comments via chat in the IAIA21 platform.



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CEG-IST

Portugal

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