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Agenda

- Research Questions
- Project Definition & Planning
- Promotion
- Questionnaire and Analysis
- Project Evaluation
- Conclusion























How does the beginning of the flowering period of the spring flowers snowdrop, primrose and wild garlic vary spatially within Switzerland?

How do we motivate different target audiences to participate in a citizen science project?



Project Definition & Planning

- Which flowers?
 - Commonly known
 - Easy to recognise
 - * Flowering period in spring
- Which target groups?
 - ★ Family and friends
 - Further acquaintances
 - * «Strangers» who are interested in nature
- How to collect data?
 - Webpage/App
 - Questionnaire

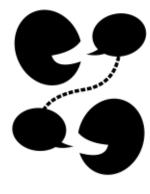


Promotion









Flyers/posters

Email

Social Media

Word of mouth



- Blüemli webpage
- Collection phase



16.01.17 - 05.05.17

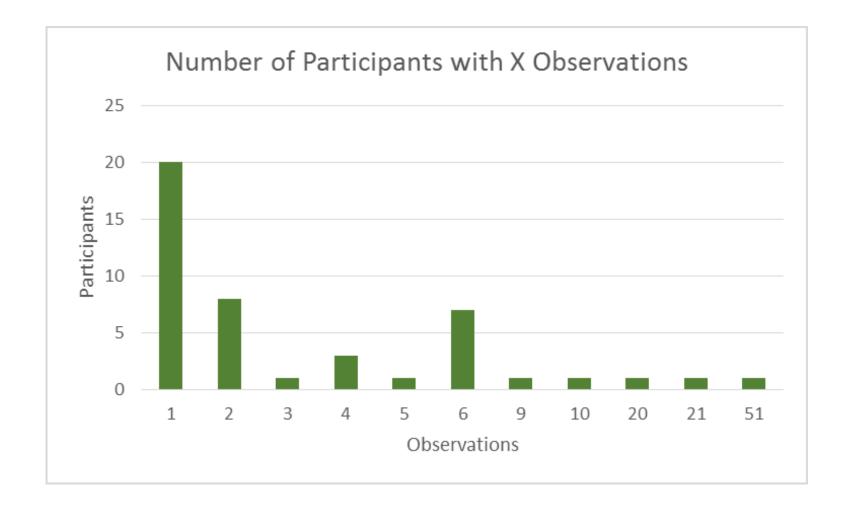


209 observations



45 participants







Submitted observations







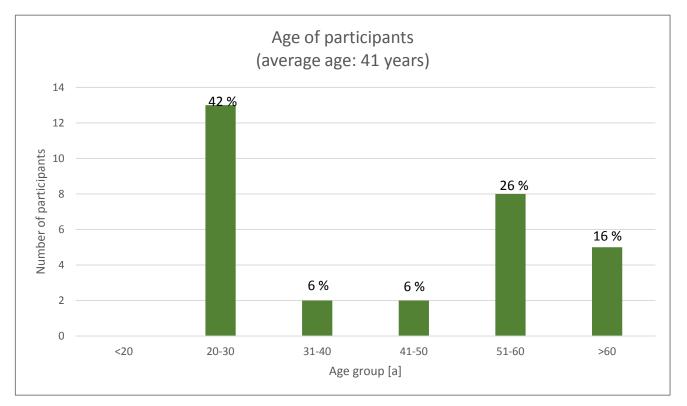
Final map



- Response rate of 69 % (31 out of 45 participants)
- Reward: bags of seeds
- Questions
 - Demographic information
 - ★ How the participants got to know us
 - Most effective promotion strategy
 - Motivation for participation

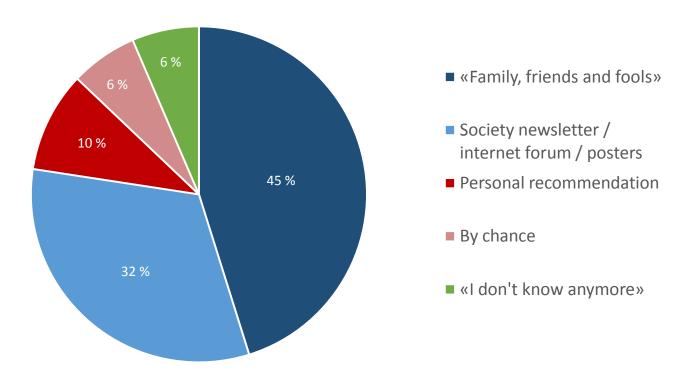


Demographic information



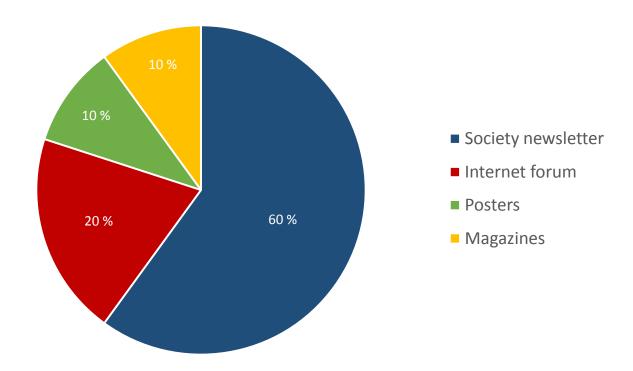


How the participants got to know us





Most effective promotion strategy





Motivation for participation

%	«If I can help, why not»	84 %
%	Personal gain	15 %
%	Contribution to scientific research	71 %
%	Interest in the topic	50 %

→ Altruistic participants (Rotman et al., 2012)



Project Evaluation

- Consideration of additional factors for the choice of flowers
- Good feedback by participants during the project and direct implementation of certain advice
- Implementation of more promotion methods focussing on strangers
 dividing strangers interested in nature into more detailed subgroups
- The project was implemented in German the French and Italian speaking parts of Switzerland were not considered



Project Evaluation

809 Prímula acaúlis (L.) L. Fam. Primulaceae

Schaftlose Primel

Primevère vulgaire Primula comune, Primavera

5–15 cm hoch, **ohne entwickelten Stengel**. Blätter in grundständiger Rosette, lang verkehrt-eiförmig, allmählich in einen undeutlichen, geflügelten Stiel verschmälert, bis 15 cm lang, unregelmässig fein gezähnt, ± kahl. **Blüten einzeln auf langen, dünnen Stielen,** hellgelb, gegen den Schlund orange-gelb, Durchmesser bis 3 cm, **mit ausgebreiteten, ausgerandeten Zipfeln**.

3–4. Lichte Wälder, Baumgärten, Gebüsche, kollin-montan. CH (fehlt im Engadin), 19+2%. In Ausbreitung.



Westeuropäisch-mediterran.
W. 333-342-h. 2n=22. *P. vulgaris* Huds.
Stengellose Schlüsselblume. (2034)

810 *Prímula elátior* (L.) L. *Fam. Primulaceae*

Wald-Schlüsselblume

Primevère élevée Primula maggiore

10–25 cm hoch. Blätter in grundständiger Rosette, eiförmig, Spreite plötzlich in den allmählich schmaler geflügelten Stiel zusammengezogen, runzelig, beidseits kurz behaart, fein und unregelmässig gezähnt. Blüten in vielblütiger, einseltiger Dolde. **Krone hellgelb,** gegen den Schlund nur wenig dunkler. **Kelch nicht aufgeblasen, kantig.** Kronsaum welt trichterförmig, mit wenig ausgerandeten Zipfeln. Kapsel 10–15 mm lang, **deutlich länger als der Kelch.**

3–5. Feuchte Wiesen, Wälder, Gebüsche, kollin-subalpin(-alpin). CH, 67+2%.



Mitteleuropäisch. W. 333-233-h. 2n=22. Hohe Schlüsselblume.





Lauber & Wagner, 1998



Conclusion

- Map is rather an indication of when people joined the project than the flowering
- The beginning of the flowering seasons is visible
- Most Participants were «family, friends and fools»
- Apart from word of mouth promotion, the newsletters were the most effective promotion strategy
- About half of the users have a University background → helping in general and helping to pursue science are the two most named motivation factors



Questions?



Thank you!



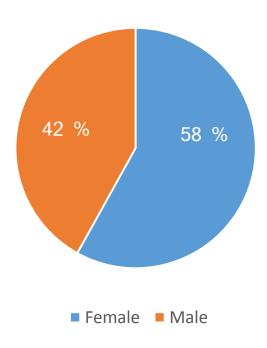
References

- Lauber, K., Wagner, G., Gygax, A., Eggenberg, S., Michel, A., 1998. Flora helvetica. Bern: P. Haupt.
- Rotman, D., Preece, J., Hammock, J., Procita, K., Hansen, D., Parr, C., Lewis, D., Jacobs, D., 2012. Dynamic changes in motivation in collaborative citizen-science projects. Proceedings of the ACM 2012 conference on Computer Supported Cooperative Work. 11 February 2012, 217-226.

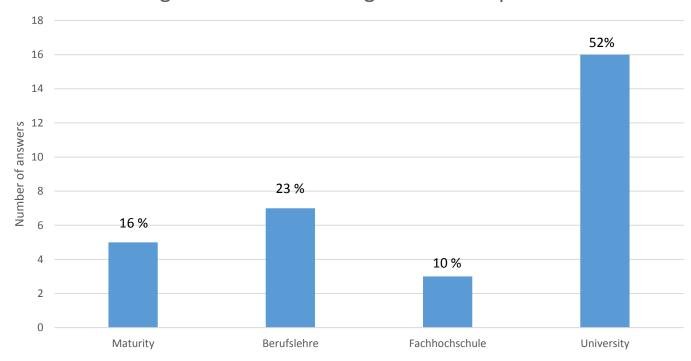


Appendix

Sex of participants



Highest Educational Degree of Participants





Appendix

Origin of participants

ZH 17

BS & BL 4

AG 4

SG 2

GR 1

TI 1

SH 1

AR 1

