Decrease of natural resources:
Evolution of Glacier Tourism in a context of climate change

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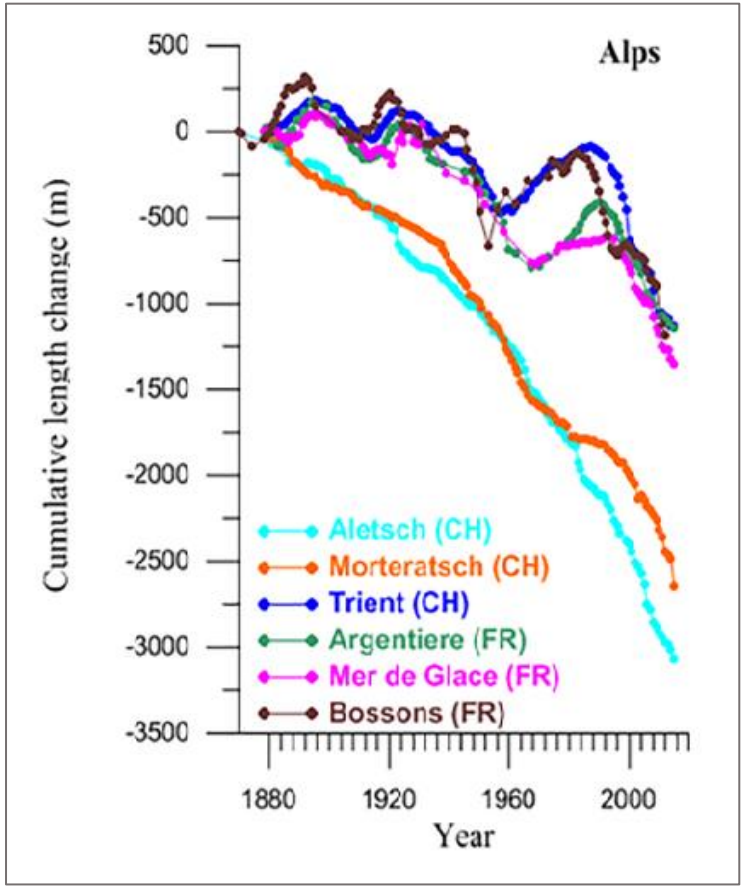
Glaciers as important resource for tourism …

- **361 000** visitors to the Mer de Glace, France (CMD data, 2019)
- **770 000** visitors to Franz Joseph and Fox glaciers, New Zealand (Purdie, 2013)
- **1,5 millions** visitors to Bashui Glacier N°1 (Wang et al., 2010)

Visitors to Athabasca Glacier (© tourismealberta.ca)

… Rapidly receding in the Alps …



Cumulative length change of famous alps glaciers (Beniston et al. 2018)

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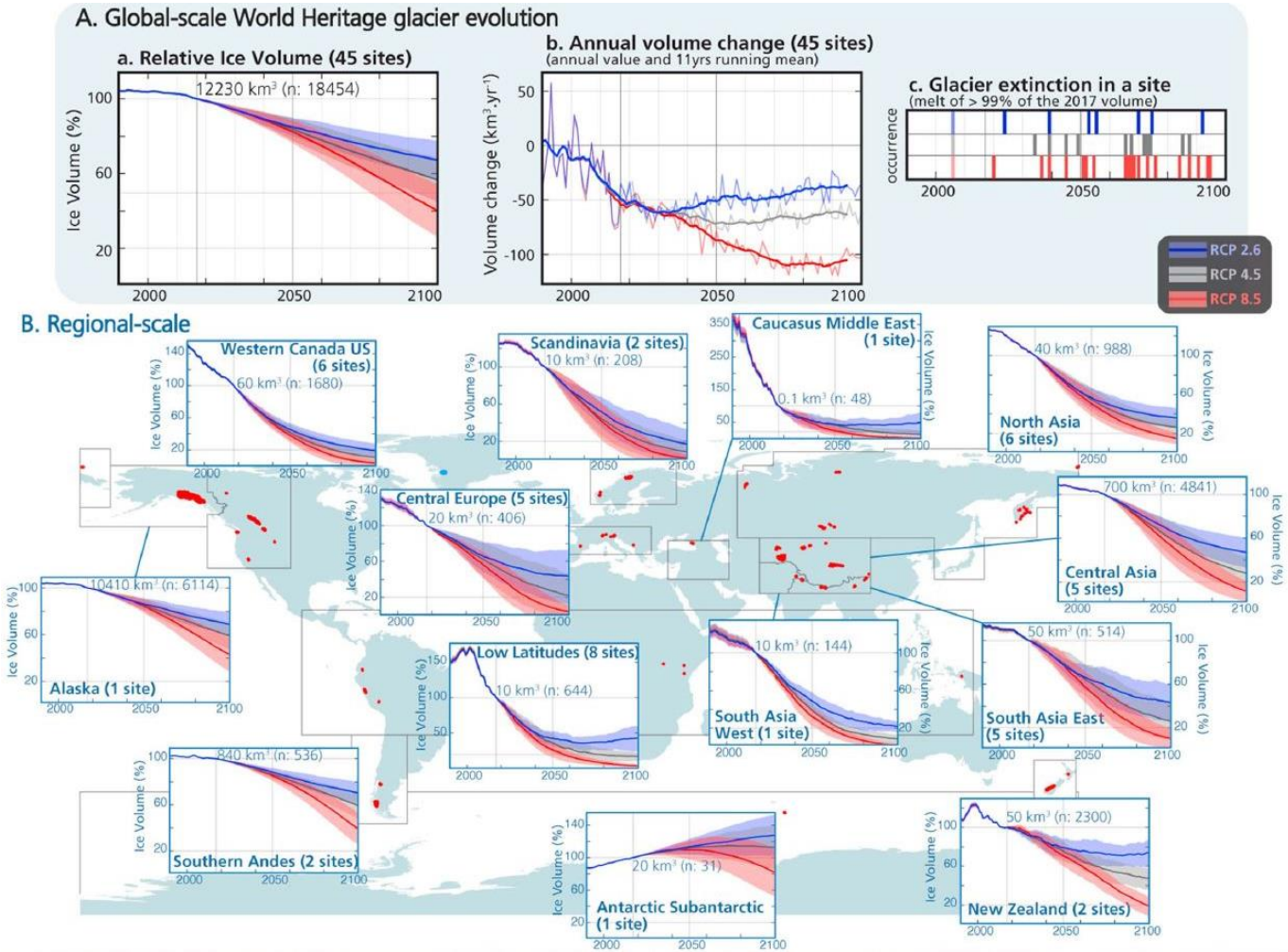
Visitors to Athabasca Glacier (© tourismealberta.ca)

... And all over the world



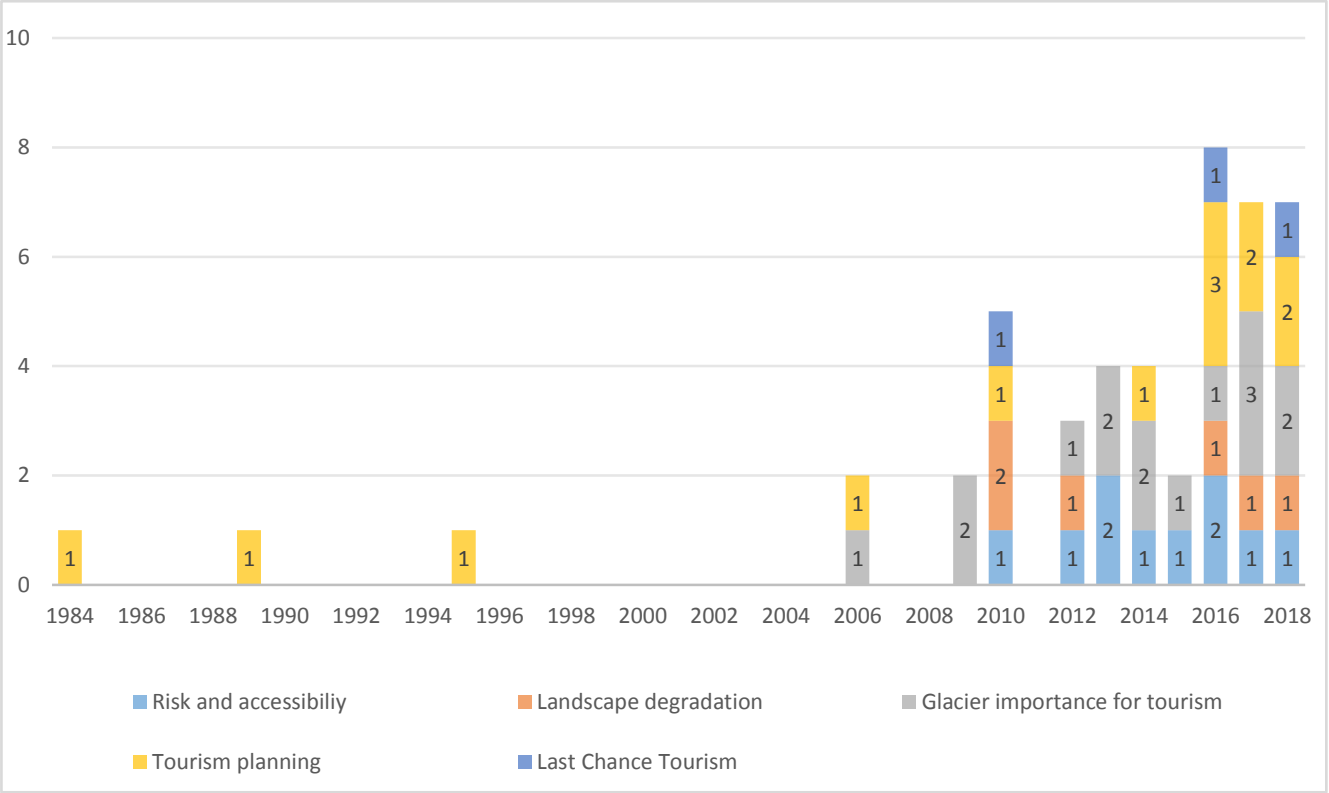
(a) Global and (b) regional 21st century evolution of glaciers located in natural World Heritage sites according to different CO_2 emission scenarios (RCP2.6, RCP4.5, and RCP8.5) – (Bossons et al., 2019) ©

Glacier Tourism literature review ➔ To be submitted in *Current Issues in Tourism*

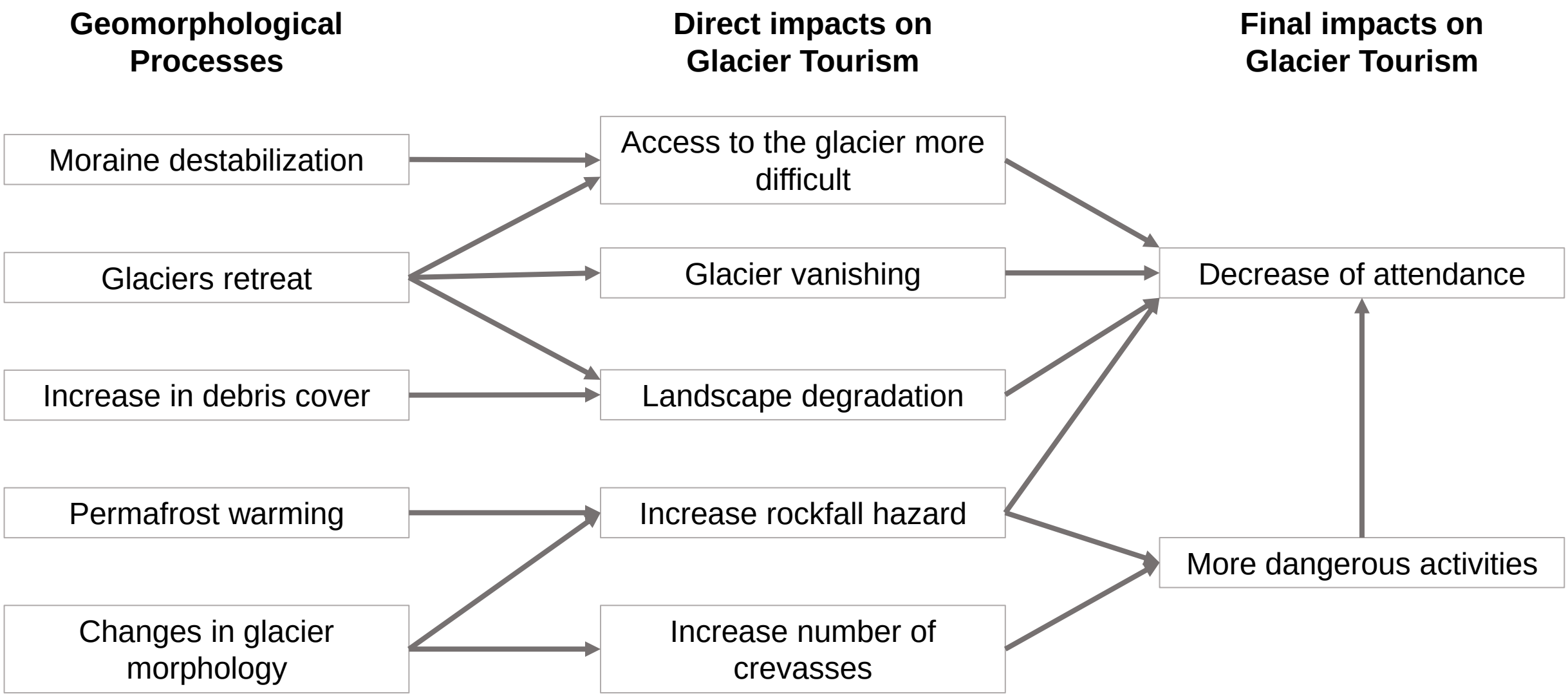
Method :
Systematic Quantitative Literature Review (Pickering *et al*., 2015)

Peer-review papers:
42

Grey literature:
23



Purpose of published studies per year (Salim et al., *in prep*)



Synthesis of the climate change impacts on glacier tourism according to geomorphological processes (Salim et al., *in prep*)

Stakeholder's responses

Changes in activities / diversifications → Heli-hike development in New Zealand, Special events in China

Development of glacier's museums → Glacier's museum projects in France, Bolivia, Patagonia, Switzerland …

Changes in glacier's access and equipment → Change of access path in Nepal
New equipment to access Mer de Glace, France

Goway Travel

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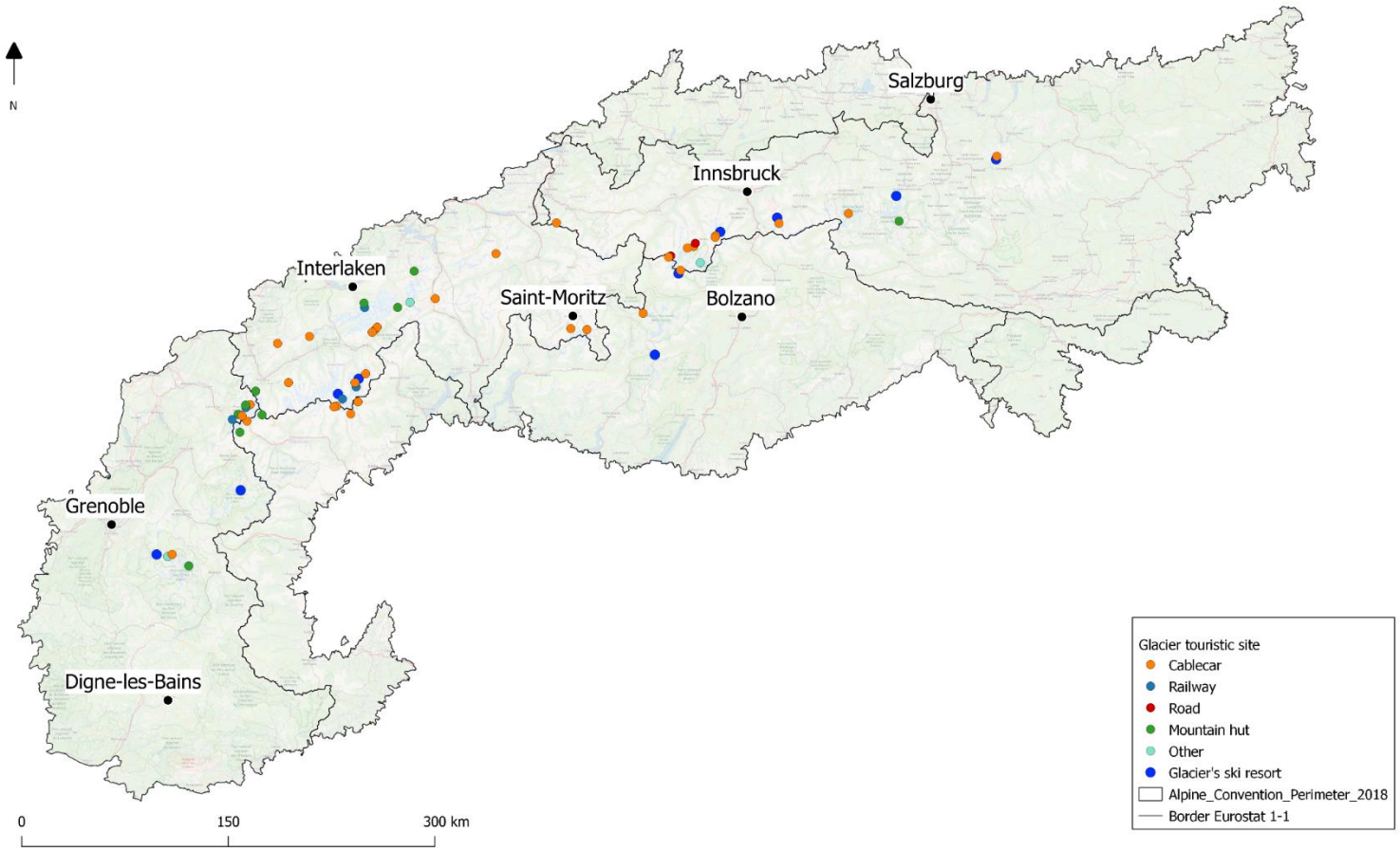
Our PhD research questions :

How glacier tourism are impacted and face the effect of climate change in the Alps ?

Stakeholders impacts and adaptations

Visitors' behaviour and motivations

Landscape degradation and perception by visitors



61 glacier touristic sites inventoried in the Alps

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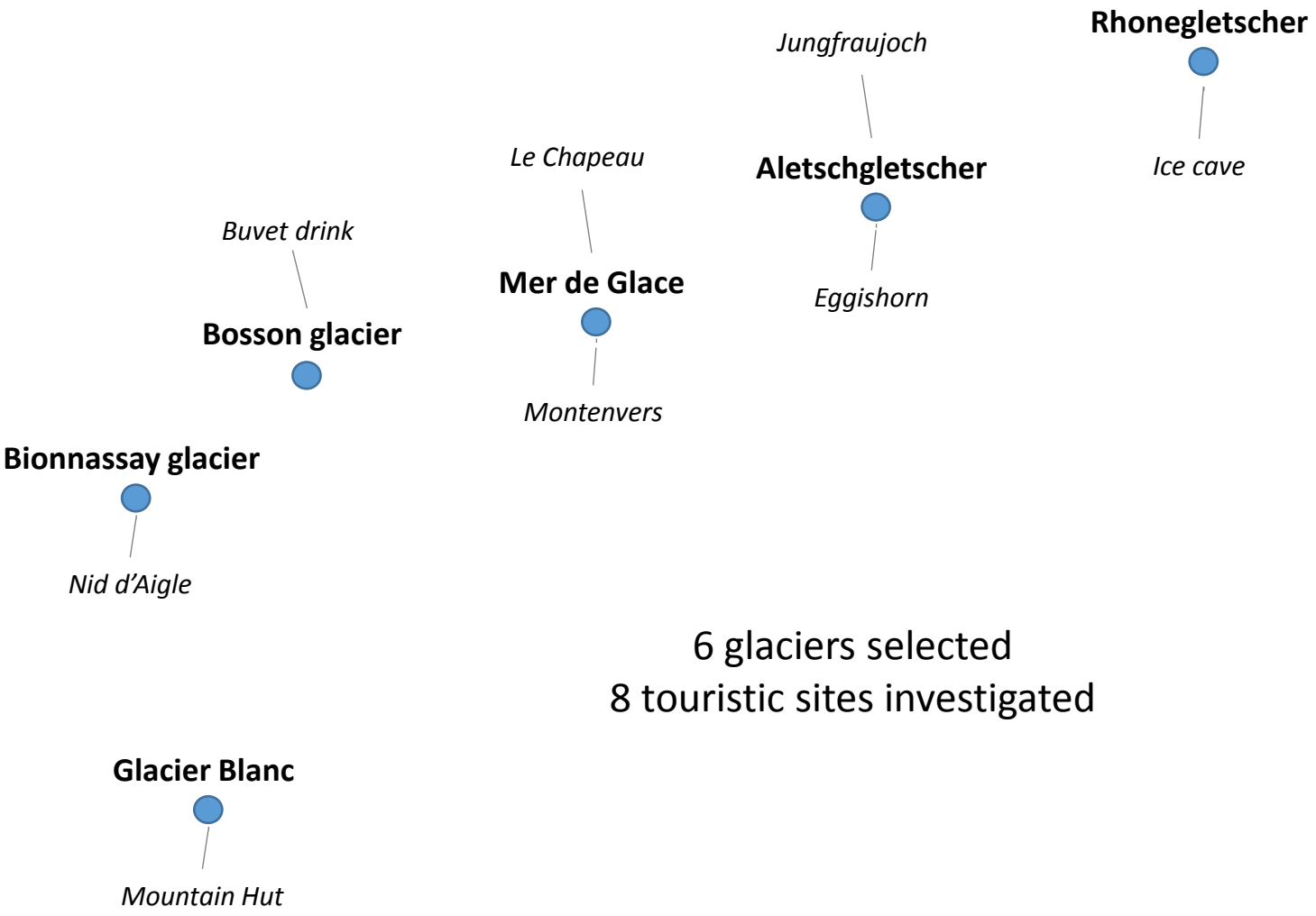

6 glaciers selected
8 touristic sites investigated

Thanks for your attention

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