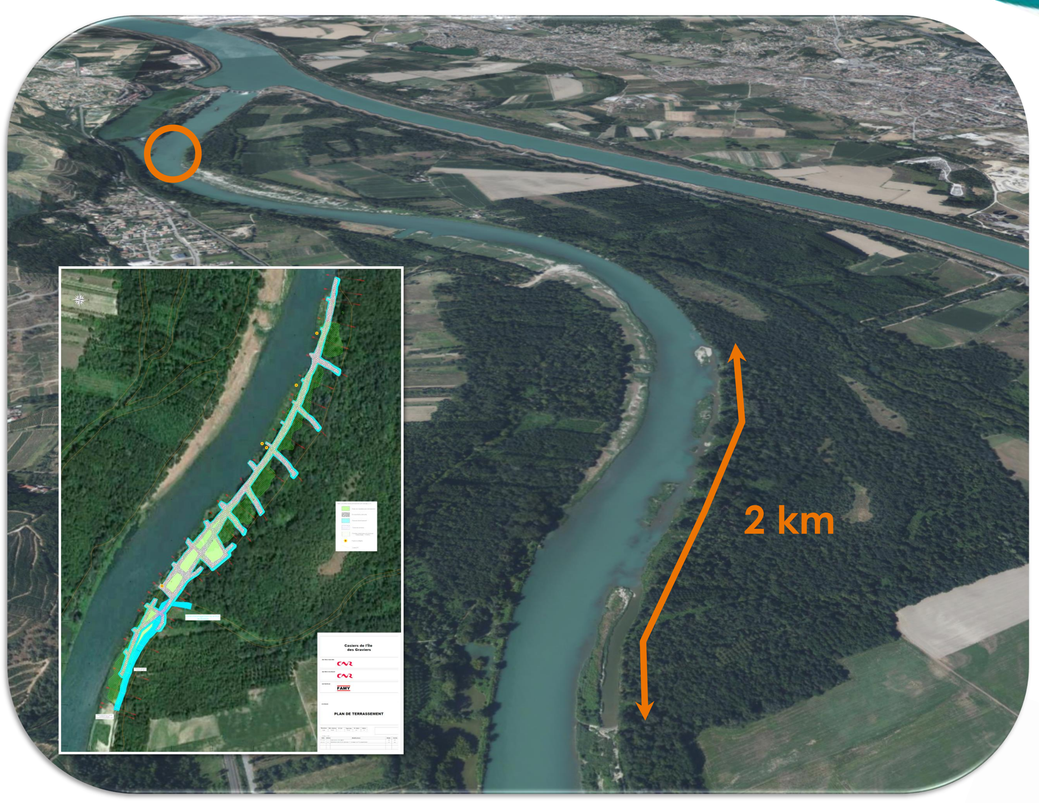
Post-Implementation Monitoring of Groyne Field Removal in the Bypassed Reach of the Rhône River near Péage-de-Roussillon

Morphological restoration efforts (2016/2018)

Sediment replenishment 7 000 m³

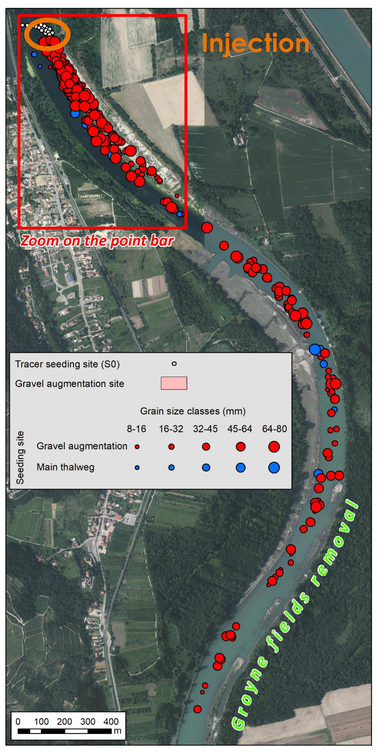
Excavation and off-site transport of rock material 30 000 m³

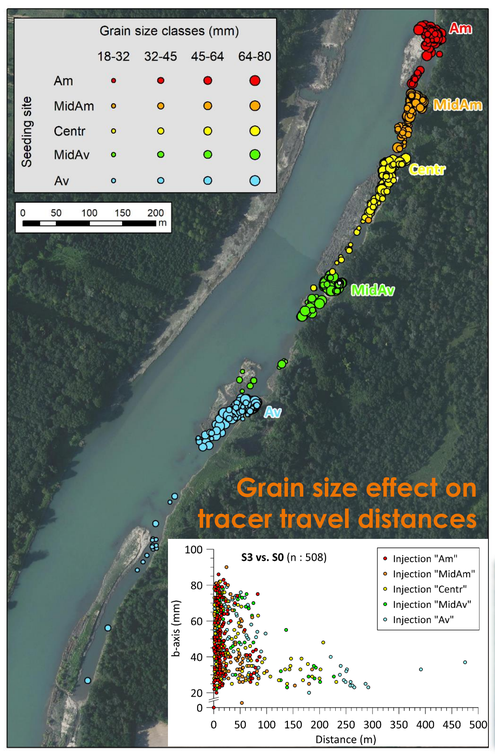


Management of *Fallopia japonica*

Fine sediments 40 000 m³

Evaluation of Physical and Ecological effects (2017/2023)

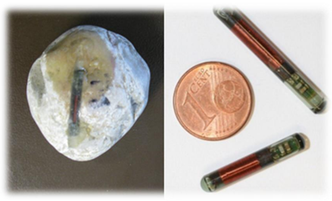


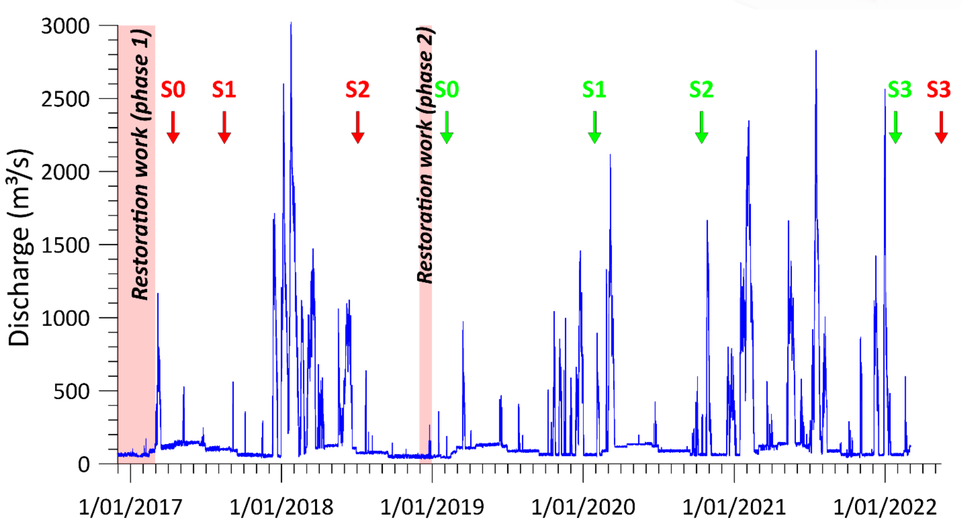


Grain size effect on tracer travel distances

Sediment Dynamics

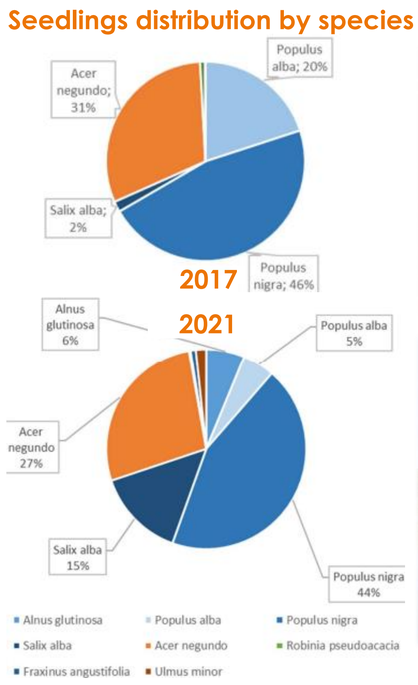
S3 vs. S0	GA (thalweg + point bar)	GA (thalweg)	GA (point bar)	SC (groyne fields removal)
Period length (yrs)	5.1	5.1	5.1	3
Time $Q > Q_c$ (h)	6012	6012	6012	3603
Q_{max} (m³/s)	3021	3021	3021	2828
Number of recovered tracers	317	169	148	508
Number of mobile tracers	317	169	148	244
% of mobile tracers	100	100	100	48
Mean distance between S3 and S0 (m)	915	1395	373	41
Virtual velocity (m/h)	0.15	0.23	0.06	0.01
Max distance (m)	3652	3652	966	475



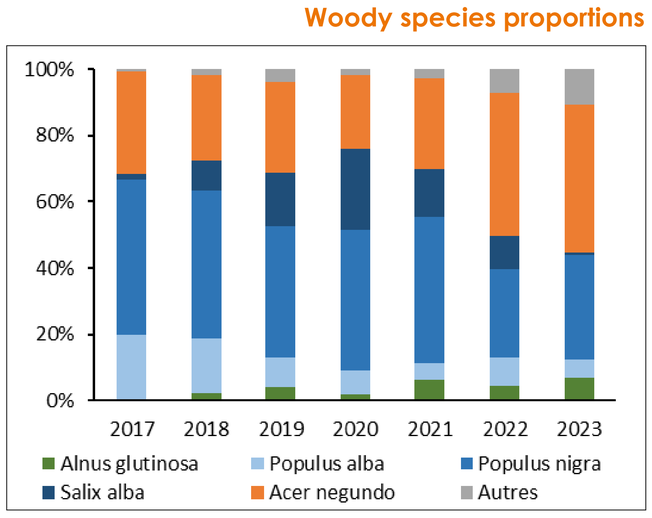


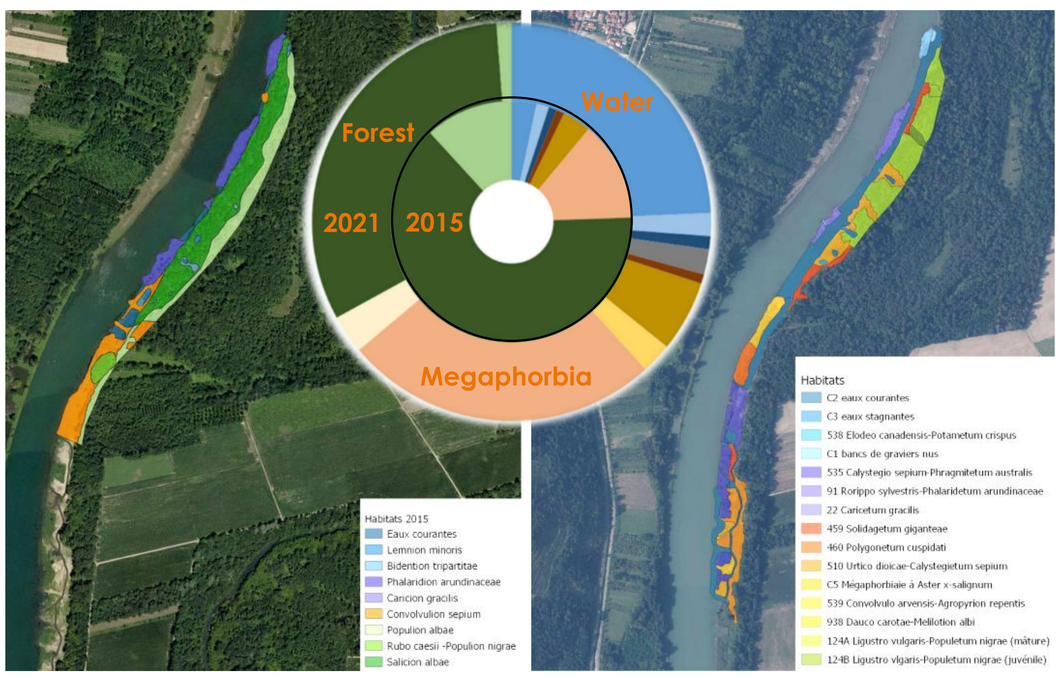
Vegetation and Habitat Dynamics

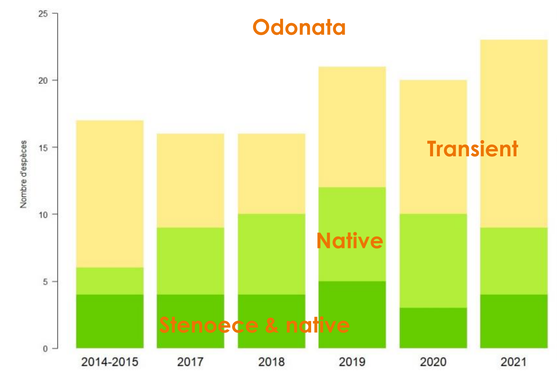
Seedlings distribution by species

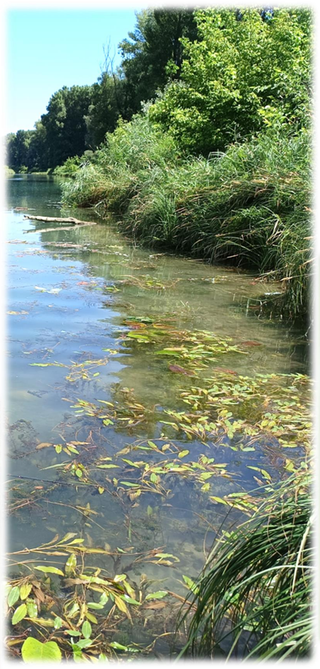


Woody species proportions



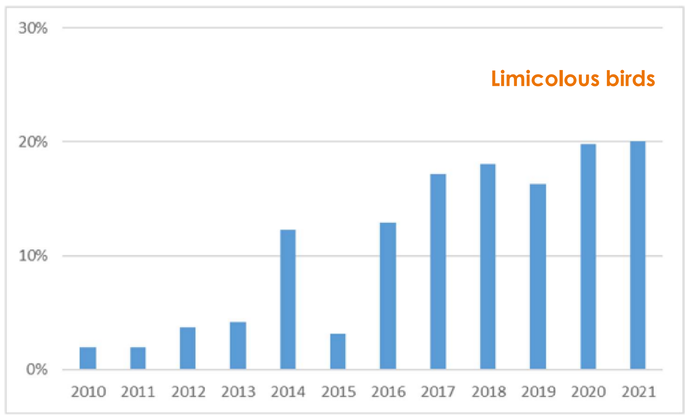






Monitoring patrimonous species

Gomphus vulgatissimus



Butomus umbellatus

Morimus asper

European beaver

Avenir Conservatoire d'espaces naturels Isère

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