



Colloque international sur l'étude, la restauration et la gestion de l'alose International symposium on restoration and conservation of shads

### The surveys on the Rhine

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Session 1 : Les actions du programme Life+ Alose / Results of the Allis shad project

Bergerac 14-15 octobre 2015

Life Maithsch + Grande Alose + Elft

### The Rhine



### The releasing program

### stocked larvae (n)



Life Mathsch - Grande Alose Elft



### Stocking and monitoring



•In stagnant waterbodies (connected gravel-pits) releasing of the larvae in pelagic habitat or after dusk (kept and fed in round-channel tanks), avoidance of predation!



•Results of monitoring point to a downstream drift from the stocking site (during the dark) and occupation of habitats downstream; in stagnant habitats active movement away from the bank and the surface

# Detections of emigrating juveniles by monitoring with stow-nets and of cooling water intake facilities in autumn





Mathsch - Grande Alose - Elft

life



### Estimated number of returnees coming from the stocking measures



Assumption 1 : 1 adult returnee per 250 stocked larvae (0.4%)
Assumption 2: maturation at age 3+ to 6+ (10%;40%;40%;10%)
No interannual variability (climate, discharge)



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# uie Maitisch Grande Alose Elit

### Seeking for the first returnees



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### Bergerac 2015

### First signs of success





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### Conclusions

➤The stocking of Allis shad larvae has emerged to be efficient with regard to handling and pre-releasing mortality

- >YOY occupy pelagic habitats (difficult to sample)
- > The larvae grow into juveniles and emigrate to the marine environment
- ► Numerous adults returned after 4 to 5 years

➤Adults reproduce successfully naturally in the river habitats - the prerequisites for the development of a population seem to be fulfilled

➢In order to ensure sustainability the continuation of the stocking measures should be ensured for another 5 years – accompanied by intensive monitoring measures







## Thank you very much for your attention!