



Life+ ENVOLL

Networking nesting habitats along the French Mediterranean coastline for
Colonial Charadriiformes conservation

Mas du Pont de Rousty, 19th May 2014

Life+ MC Salt Workshop





Introduction

- Adrienne Daudet, Amis des Marais du Vigueirat (AMV), Life+ ENVOLL technical coordinator – adriennne.daudet@espaces-naturels.fr
- **Presentation objective:** brief overview of the Life+ ENVOLL and its links with the Life+ MC Salt
- **Contents:**
 - What are colonial Charadriiformes
 - The Life+ ENVOLL Project
 - MC-Salt and ENVOLL complementarities

What are colonial Charadriiformes?

- **9 seabird species:** *Larus genei*, *Ichthyaetus audouini*, *Larus ridibundus*, *Larus melanocephalus*, *Gelochelidon nilotica*, *Sterna hirundo*, *Sterna sandvicensis*, *Sterna albifrons*, *Recurvirostra avosetta*
- Nest in colonies, which can be multi-species

What are colonial Charadriiformes?



What are colonial Charadriiformes?



Colonie de sternes caugek et goélands railleurs (C.Pin)

Decreasing populations

- Due to **poor reproduction successes** (under population reproduction thresholds), caused by the poor quality of their nesting habitats
- > **sandy islets disappearance** alongside the Mediterranean coastline
 - > Increase of nesting birds **disturbance**, which can have a huge impact on reproduction successes
 - > *Larus michahellis* **competition**



Answering the conservation problem

- Preliminary studies followed by **first pilot actions**: tested in PACA and LR regions (France) till 2007: AMV, Tour du Valat, CEN L-R
- **First measurable positive outputs** shared in 2011: simple conservation works demonstrated impacts on reproduction successes
 - **nesting islets and rafts**, creating new nesting sites
 - adapted **hydraulic management**: against terrestrial predation and *Larus michahellis* competition
- **Finalizing the approach**: Life+ ENVOLL, 1st July 2013 – 30th June 2018

Creating nesting islets

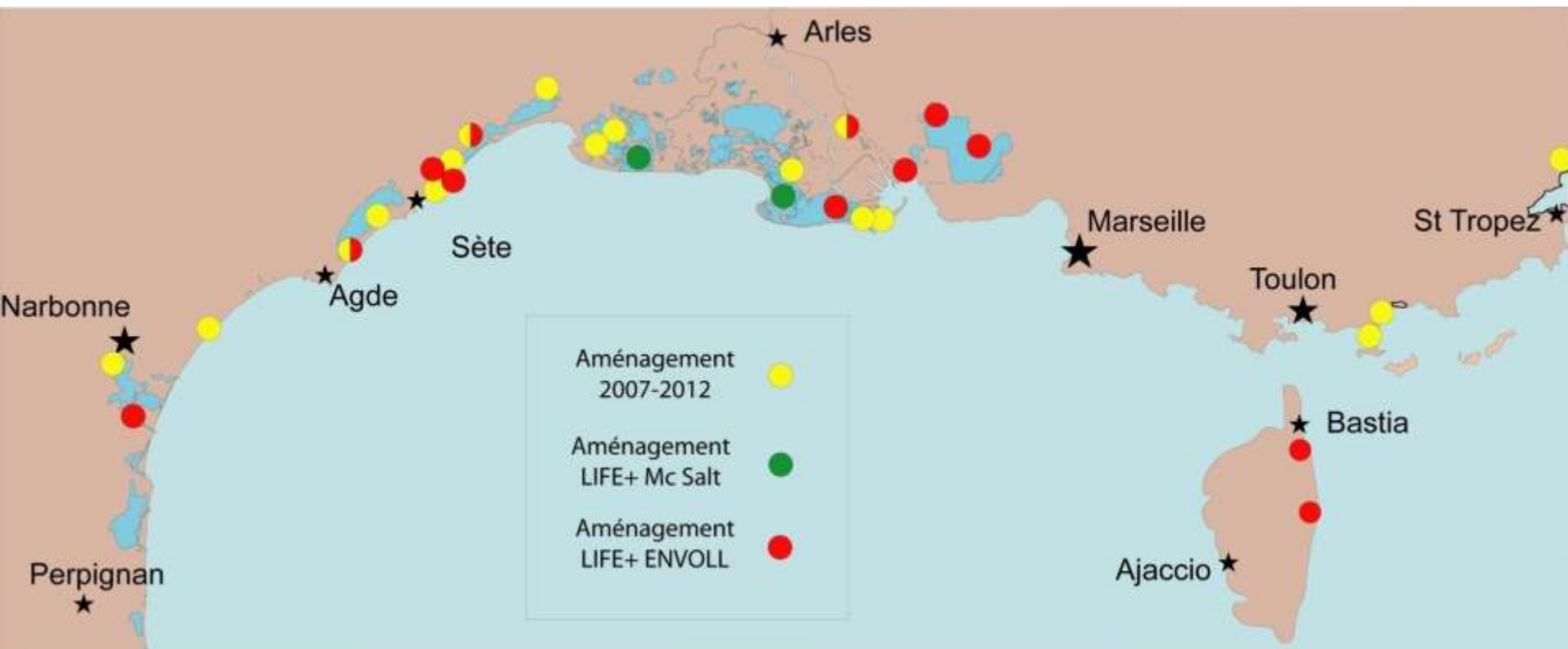


Creating nesting rafts



Answering the conservation problem: the Life+ ENVOLL

- Finalizing the nesting sites **network**: PNRNM, Thou Agglo, CEN L-R, CSME, AMV, CG2B: islets, rafts, hydraulic management (Actions A-C)



All concrete conservation actions having their preparatory stage launched



Answering the conservation problem: the Life+ ENVOLL

- **Innovative actions**
 - Corsica integration
 - Large rafts testing (200m² in Urbino, Corsica)
- **Monitoring and evaluation** alongside the Mediterranean coastline: *first monitoring campaign launched for 2014*
- For a **sustainable approach**: knowledge transfer (conservation techniques, monitoring protocols) – Action E1: *first common meetings organized*



Answering the conservation problem: the Life+ ENVOLL

- Concrete actions completed by public awareness and territory stakeholders sensitization: for **disturbance prevention**
 - **Environmental education**: Réseau Ecole et Nature. 3 public awareness campaigns in 2015, 2016 and 2017 (Action A8 – E3)

Co-construction on-going: target population validated, first approaches and tools

- Integration of the Charadriiformes conservation within land stewardship priorities (Action E4): **professional users** (fishermen, sea sports professionals) & local stakeholders (technical services, **environmental polices**) sensitization

Integration on-going within existing networks: N2Gliss in LR, Réseau Mer in PACA

- Large scale **communication** (Action E2 & E6): stakeholders, public *Newspapers articles, project movies, internet site, newsletters & leaflets on construction*

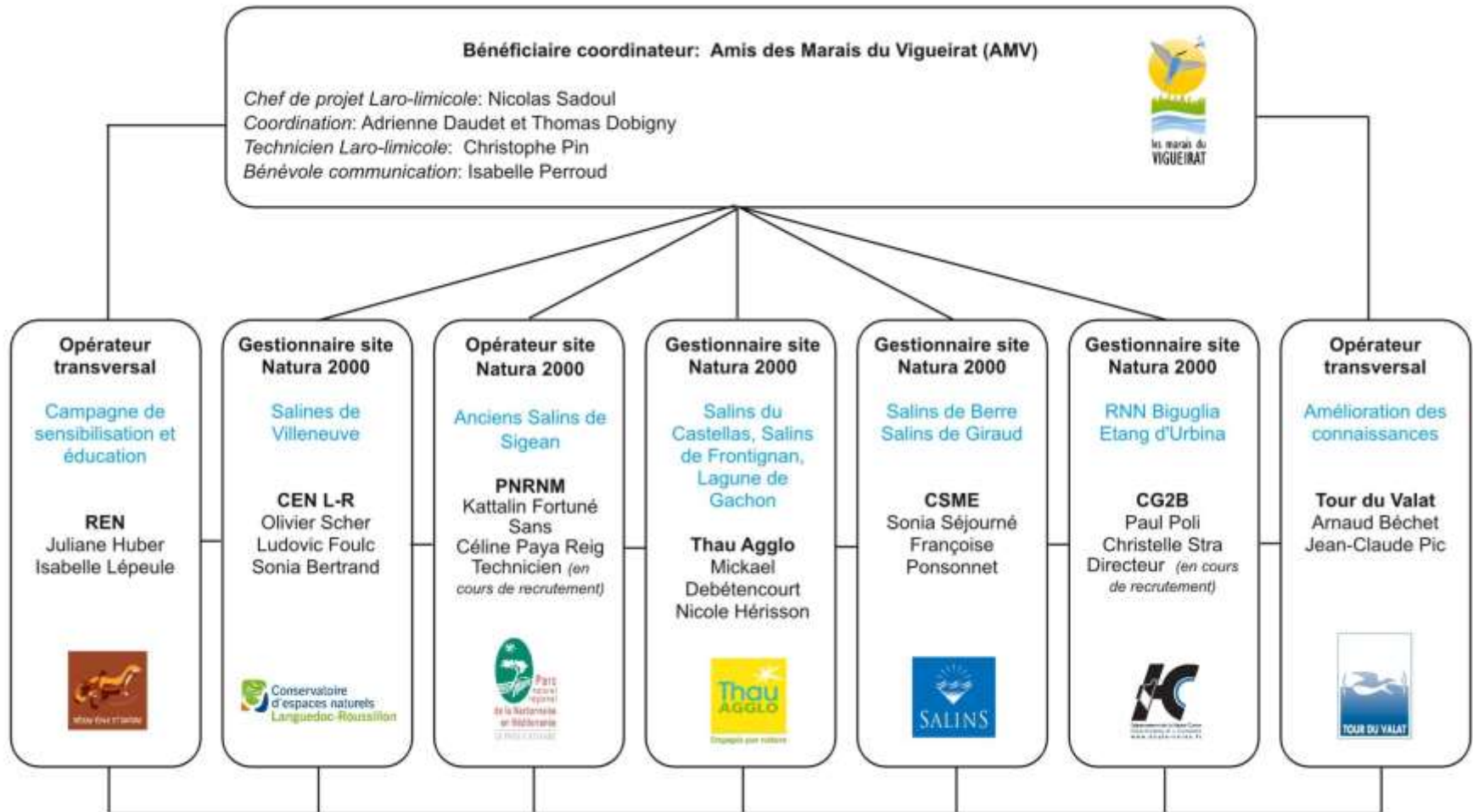


Answering the conservation problem: the Life+ ENVOLL

- Knowledge improvement for further enhanced conservation techniques: Tour du Valat (Action A7)
 - How do nesting sites & colonies connect:
improving spatial repartition of reproduction sites
 - Landscape structure and reproduction successes:
improving further nesting sites design

*PhD and MA students recruited, applied research
on-going*

Answering the conservation problem: the Life+ ENVOLL





Life+ ENVOLL and MC-Salt: strong links

- **Common stakeholders:**
 - Compagnie des Salins du Midi & Tour du Valat are associated beneficiaries in both projects
 - The PNR Camargue is an essential technical & financial partner for the Life+ ENVOLL, while an associated beneficiary in the Life+ MC Salt
- **Complementary territories** in Camargue
- **Common impact indicators** on birds populations.



Thanks!

To our Financial & Technical Partners

European Commission

DREAL Languedoc-Roussillon, DREAL PACA, DREAL Corse, MEDDE

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Agglo de Montpellier, PNR Camargue, Grand Port Maritime de Marseille, San Ouest Provence,

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