

13th UIC Sustainability Conference



Biodiversity offsetting

Perspective to 'No Net Loss' of biodiversity through
the experience of BPL project - Eiffage





- BBOP community
- Case study: biodiversity offsetting of BPL project in France





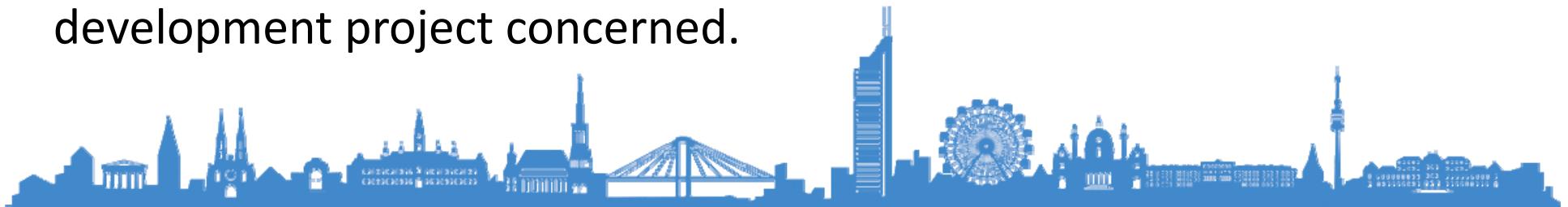
What is BBOP?



Created by **Forest Trends** in 2004

International Forum on mitigation hierarchy and offsets

Offset: BBOP defines a biodiversity offset as a no net loss (or net gain) conservation outcome, in the specific context of the development project concerned.





What is BBOP?



BBOP: 12 years of international, multi-stakeholder agreement and experience

100 members – companies, governments, banks, NGOs, individuals.





BBOP can help railways show a
'Net Gain' of biodiversity

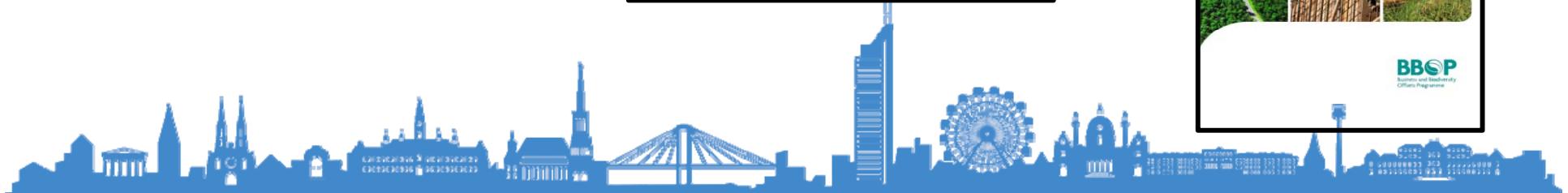
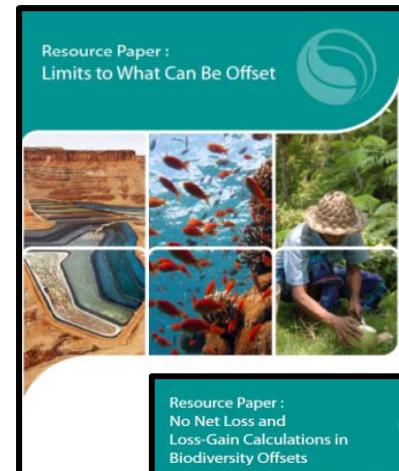


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Publications:

- Principles and Standard
- Methodologies and Guidelines
- Case studies





BBOP can help railways show a
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Publications:

Principles and Standard

Methodologies and Guidelines

Case studies

Influence:

BBOP has helped shape:

World Bank Safeguards (2015), IFC Performance Standards (2012 and 2015), IUCN policy (2016), EU NNL Initiative, companies' commitments and practice, governments' laws and policies.

Webinar series

↳ <http://bbop.forest-trends.org/pages/webinars>

Membership organization & Community of Practice





BBOP can help railways show a 'Net Gain' of biodiversity



Opportunities:

Planning for 'Net Gain' can help secure permits, build stakeholder support & demonstrate sustainability

Risks:

Poor application of the mitigation hierarchy & low standards puts permits at risk, causes delays, increases costs & liabilities

→ *High Standards: essential! See BBOP Standard*

Experience & lessons learned:

30 years of successes and failures with mitigation of impacts on biodiversity worldwide

We know what's needed for success

Join BBOP for support and access to best practice!

<http://bbop.forest-trends.org/>



Eiffage, a BBOP member



Construction & public works company

4 branches | multiservices activities | 14 €bn revenue | 65 000 employees

**Construction
Real estate**



Public works | Roads



Energy



Concessions | PPP



In 70
countries



Eiffage and offsetting



Our biodiversity commitments:

THE EIFFAGE BIODIVERSITY CHARTER

A strong ambition:

To minimize the ecological footprint



2009

- ✓ By avoidance and reduction of impacts on living systems and treating residual impacts through appropriate offset that are qualitative and followed through;
- ✓ By professionalizing the evaluation of impacts of its activities on biodiversity;
- ✓ By including the renaturalisation of artificialized sites in these approaches;
- ✓ By identifying and internalising environmental costs associated with the Group's activities.



1st 2012

2nd 2015

BBOP
Business and Biodiversity
Offsets Programme

2013



Offsets

~ 3,000 ha

of natural areas managed
for biodiversity offsetting in France
(20 to 50 years)

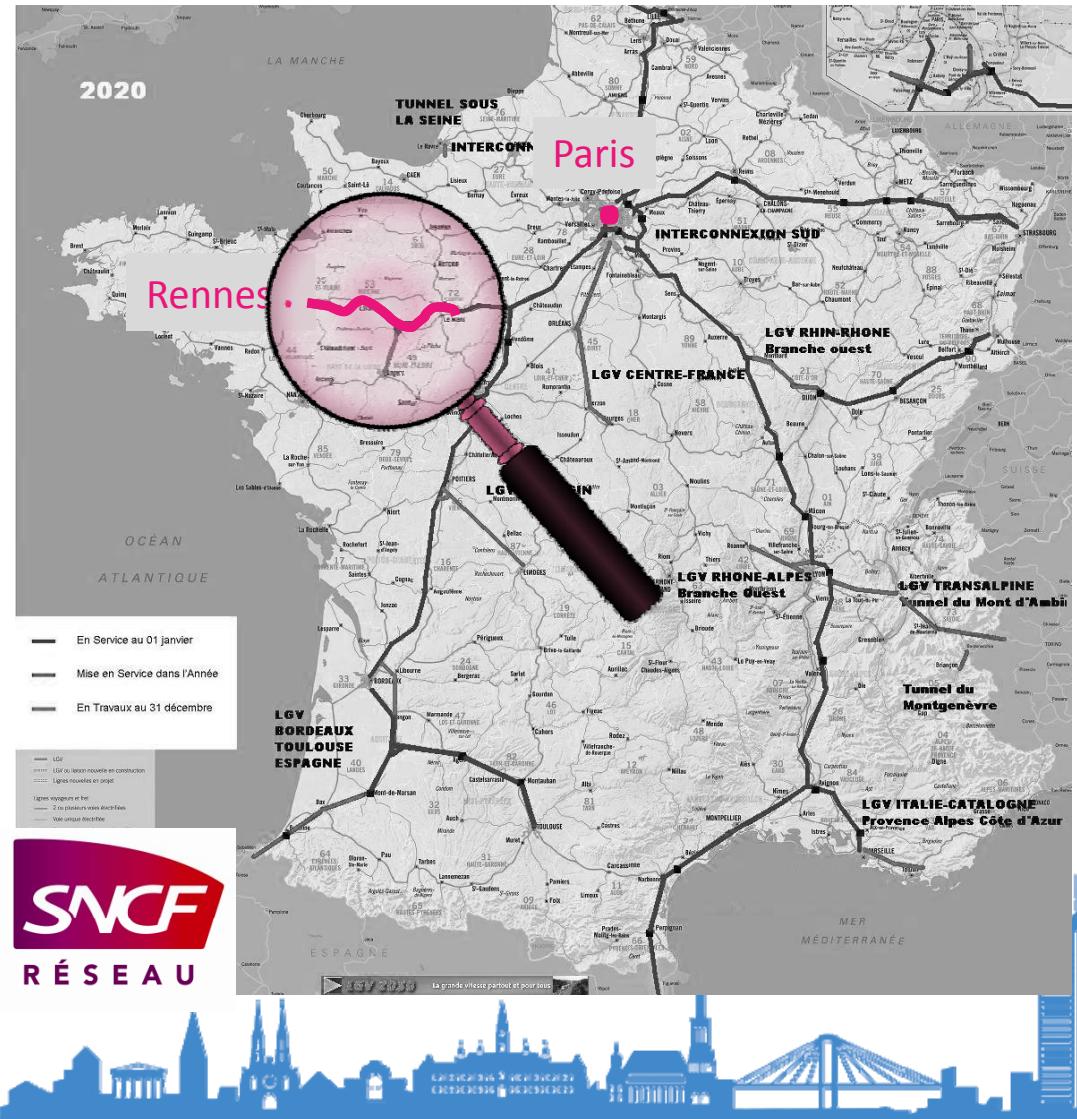
BBOP promotes 'No Net Loss' of biodiversity

How does Eiffage do it on BPL high-speed line?





The BPL project

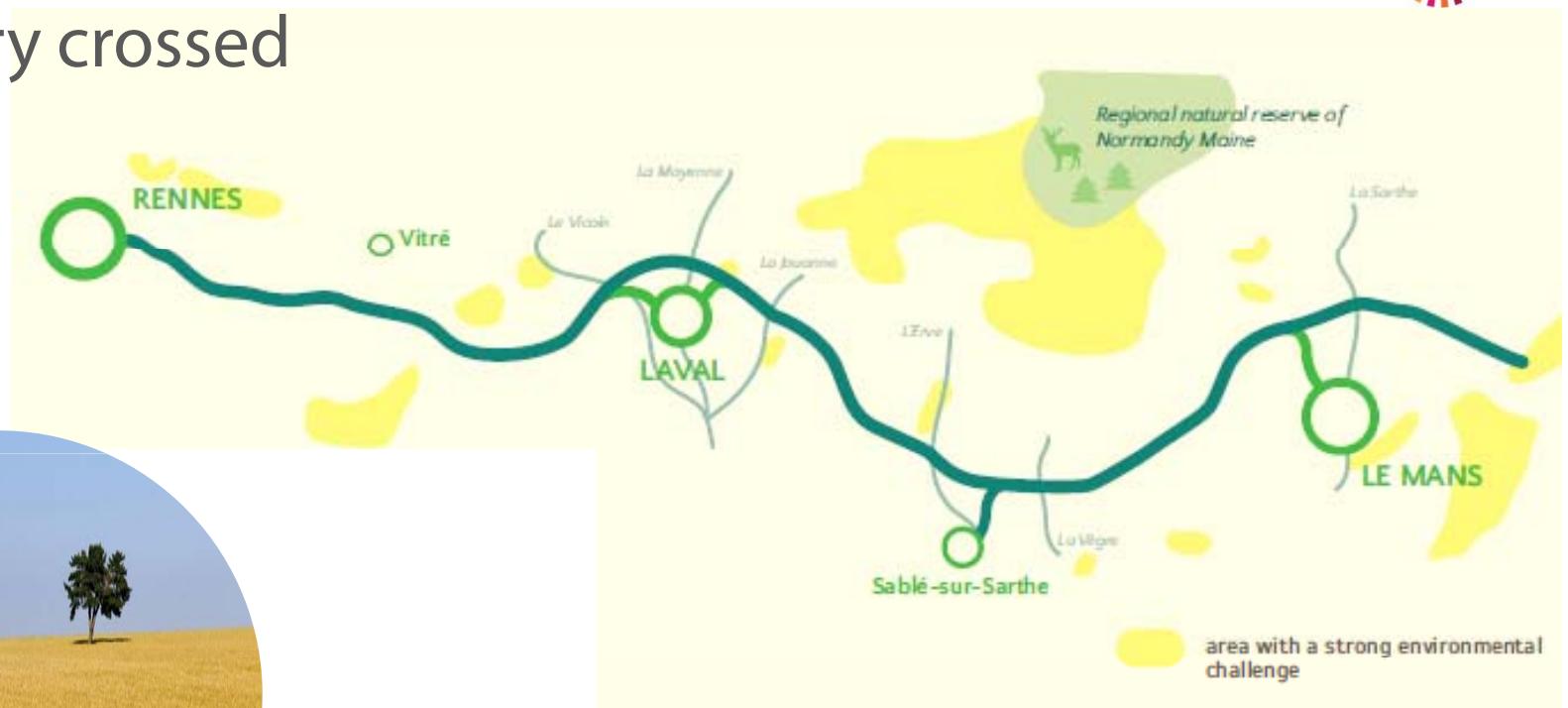
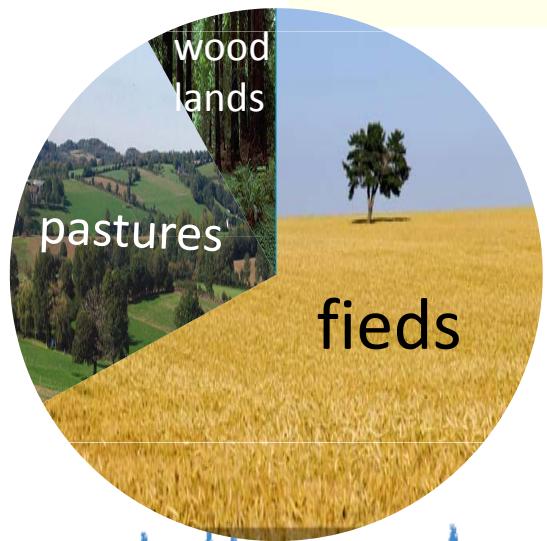


182 km new HSL
Speed of 320 km/h
25 years PPP contract | 3.3 €bn invest.
26 M m³ earthworks
11 viaducts + 220 civil structures
820 km of rails | 1.6 M tons of ballast

37'
saved between
Paris-Rennes



Territory crossed





Context of offsetting in France

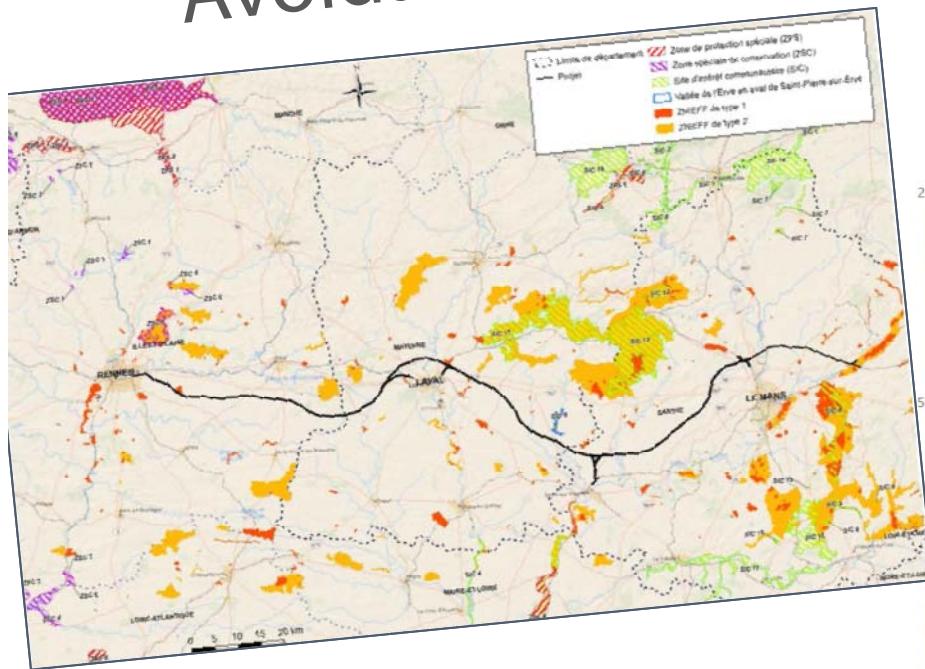
- A real 15 years feedback
- Applies only at the project level, not at the territorial programme level
- The ecological equivalence method is recommended
- Rural territories =~~E~~and pressure



Mitigation hierarchy



Avoidance 1st



Then
minimization



Mitigation hierarchy



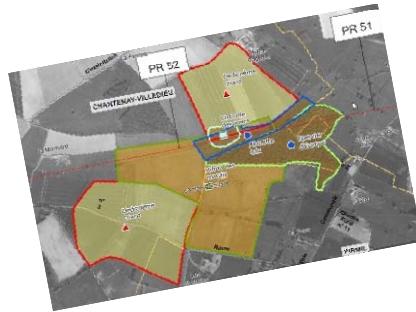
Avoidance 1st

*Then
minimization*

... but residual impacts → Compensation



Residual impacts



natural areas: 209 ha
woodlands: 62 ha
ponds: 70 u.
waterway: 7.2 km
total: **350 ha**



70 protected species concerned.



Ecological debt



total:

$\times 2.6$
350 ha **915 ha**



Ecological debt



Method:

- Offsetting ratios
- Modulation:
 - ecological quality of impacted habitats
 - species rarity
 - quality of offset sites (if known)
- "Habitat" approach

"like for like"



Offset implementation

3 key factors:

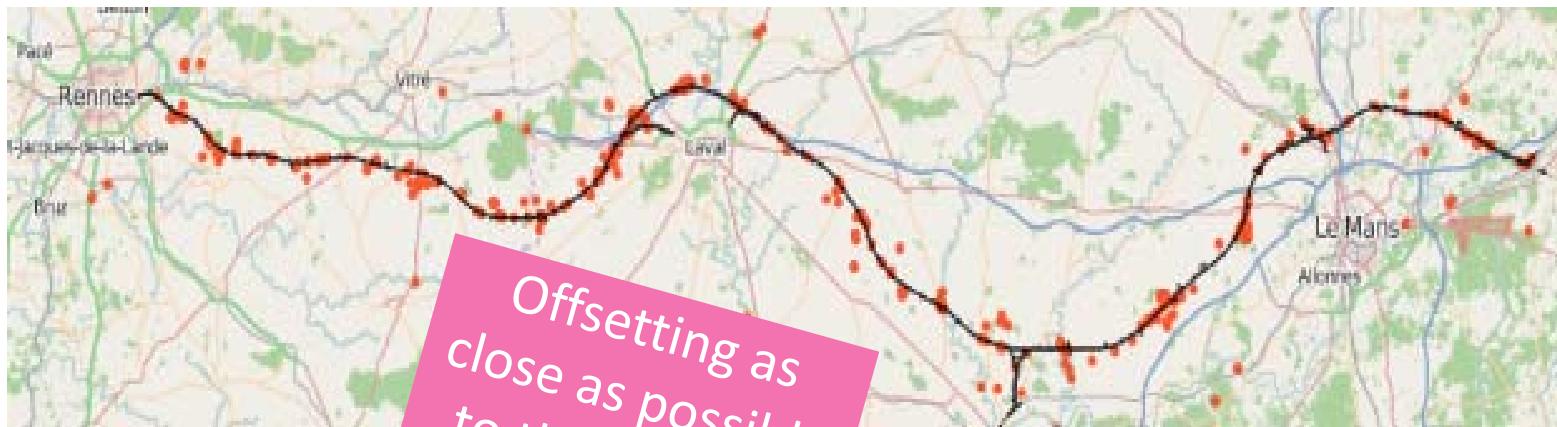
- To find the offset sites on ground
- The command of the property
- To ensure the command of the long-term ecological management



Offset implementation



915 ha spread in **230** offset sites along the route



*Offsetting as
close as possible
to the impacts*



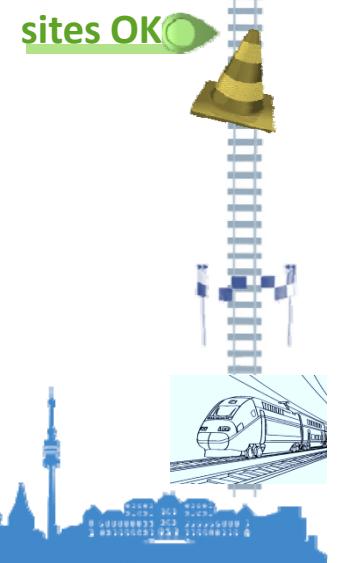
Offset implementation



100% property acquired at the start of 2015

80%
acquisition

20%
contract



Offset implementation



1 ecological plan / site including:

- Specifications for farmers
- Ecological works & maintenance
- Offsetting management (surveys,...)

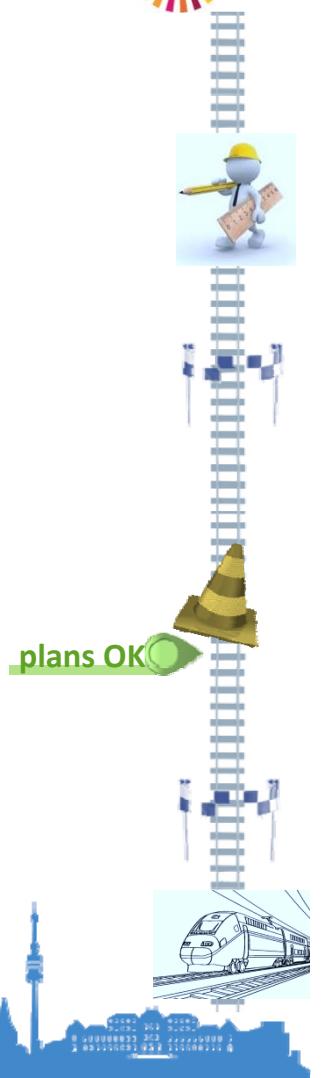
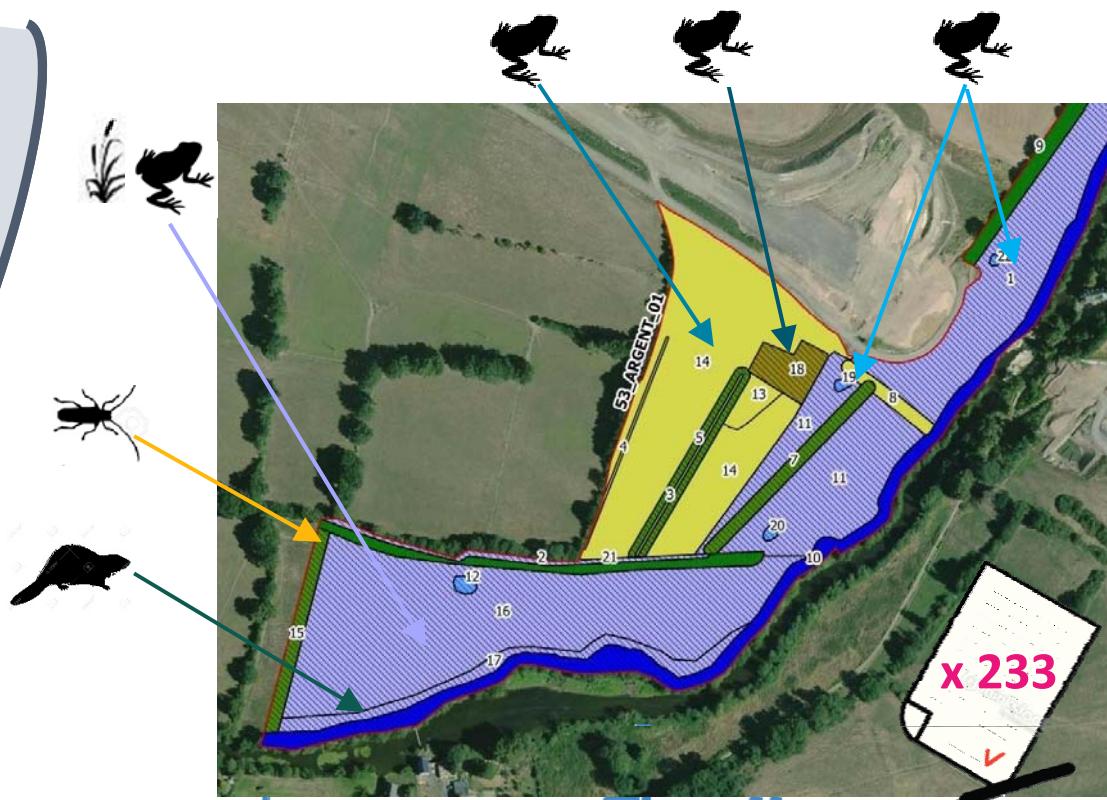


1 offset operator selected

plans OK



Offset on ground



Offset on ground



+



Today:

90% ecological works done

+ 500 ha will be cultivated by farmers



works OK



Offset achievement



Ecological works



Surveys programme

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Fluteau nageant transfert																									
Amphibiens mares transfert																									
Amphibiens MCI																									
Chiroptères nichoirs																									
Insectes grand Capricorne																									
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Truite fario																									
Loutre/castor ripisylve																									
Crosoope ripisylve																									
Suivi biologiques - 11 CE									Initial	n+3	n+6														
Réalisation d'IPR				In.																					

sampled surveys
survey
visit



Offset achievement

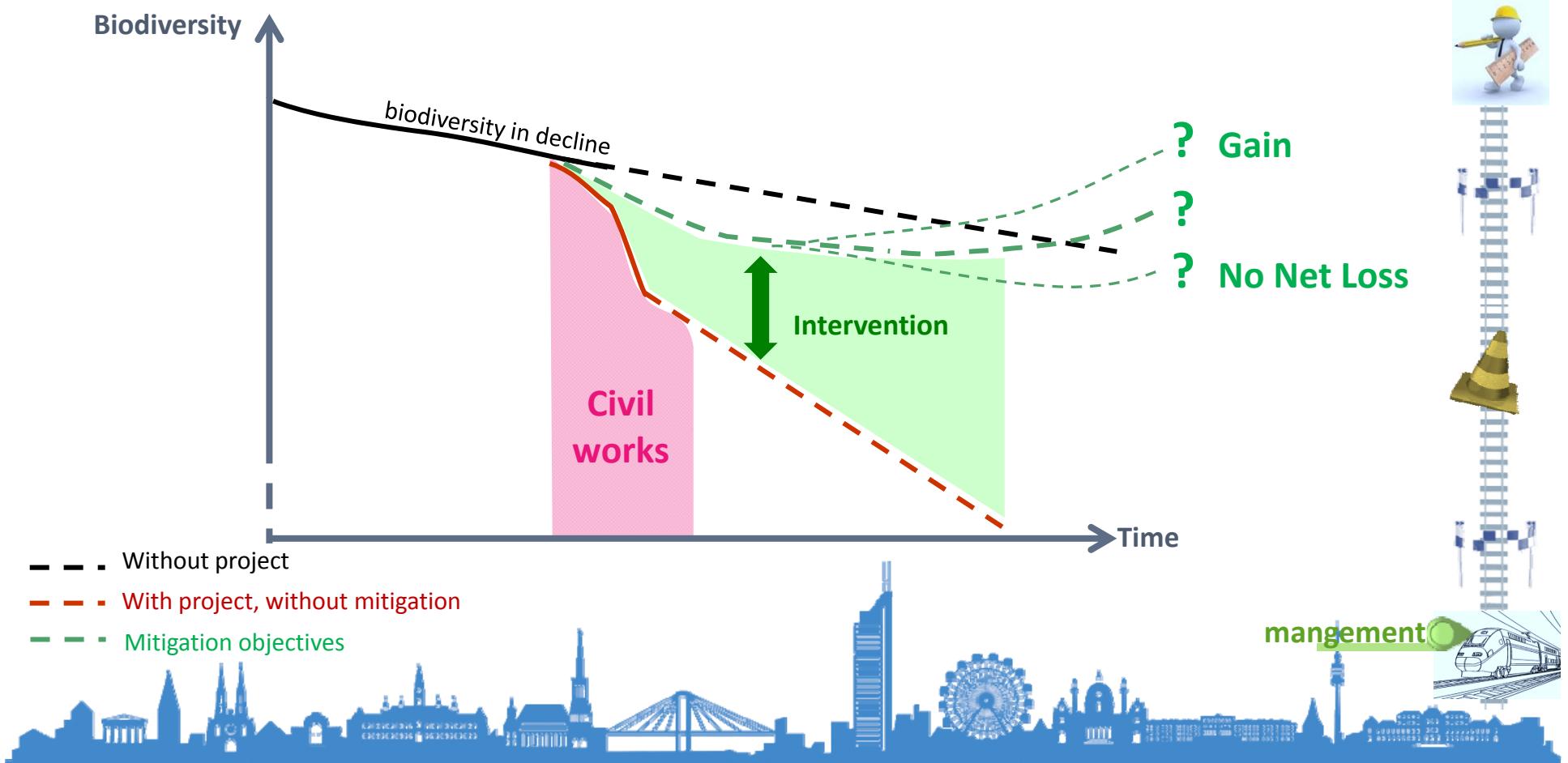


→ Monitor & adapt the offset in time
≡ 3rd key factor to a sucessful offset



No net loss?

... see you in 20 years!





The BPL offsetting project :

- A case study for the mitigation hierarchy application
- To share with the railway sector for future project
- THE key factor is anticipation





- Key success to achieve No Net Loss:

- Collaborative behaviour with local stakeholders
- Property command to implement the offset
- Offset long-term management
- Land-use considerations as important as ecological objectives
- Good knowledge of offsetting sector





Railways & biodiversity

Thank you for your attention!

Joachim Lémeri,
Head of sustainable engineering  **EIFFAGE**

