

# Summary

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SNCF RESEAU PPP & CONCESSION PROJECTS CONCESSION / PPP OPERATIONS DETAILS

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#### 3. KPI

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**SAFETY** 

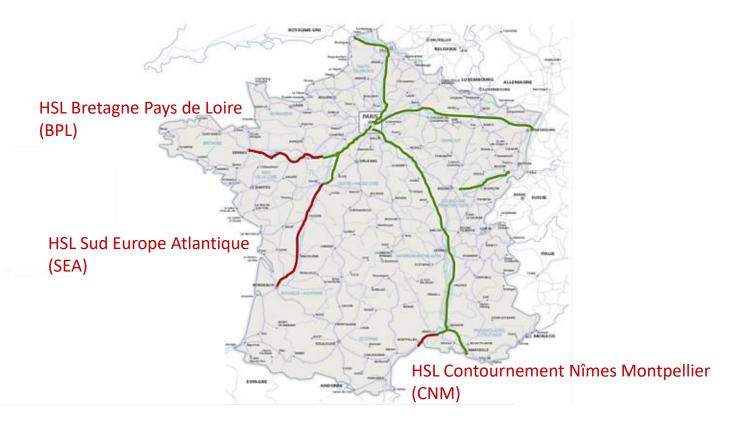
FEEDBAK AND VIGILANCE: CONTRACTS MANAGERS REQUIRED LONG-TERM PROJECT WANTED - LONG-TERM STAFF NEEDED



# SNCF RESEAU PPP & CONCESSION PROJECTS



# SNCF Réseau PPP & Concession Projects





## HSR Sud Europe Atlantique (SEA)

- 302 km
- Commissioned in July 2017
- 2h05 from Paris to Bordeaux instead of 3h
- Concession contract signed with LISEA signed in June 2011
- Track Access Charges paid to LISEA
- Duration 50 years





## HSR Bretagne Pays de Loire (BPL)



- 182 km
- Commissioned in July 2017
- 1h30 from Paris to Rennes instead of 2h
- PPP contract signed with ERE in July 2011 for 25 years



Contournement Nîmes Montpellier (CNM)

**HSR & Fret line** 

- 80 km
- Commissioned in December 2017
- 3h from Paris to Montpellier instead of 3h30
- PPP contract signed with Oc'Via in June 2012 for 25 years





# CONCESSION / PPP OPERATIONS DETAILS

Projets	Contract	Duration	Design	Invest	Tarification, slots fees	Operation
			Build			
			Finance			
			Maintenance			
Sud Europe Atlantique	Concession	50 y	LISEA	7,2 Mds€	LISEA	LISEA, which subcontracts to SNCF Réseau
Bretagne Pays de Loire	Partnership	25 y	ERE	3,4 Mds€	SNCF Réseau	SNCF Réseau
Contournement Nîmes Montpellier	Partnership	25 y	Oc'Via	2,0 Mds€	SNCF Réseau	SNCF Réseau
			Total	12,6 Mds€		



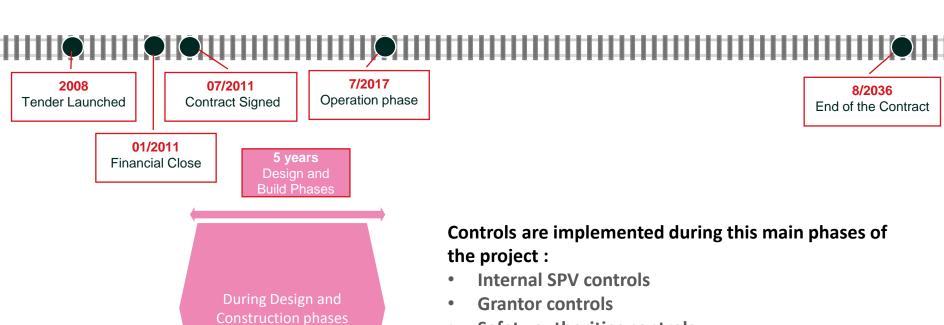
# 02

# Monitoring organisation



# MONITORING AND CONTROL ARE NEEDED AT THE BEGINNING OF THE PROJECT

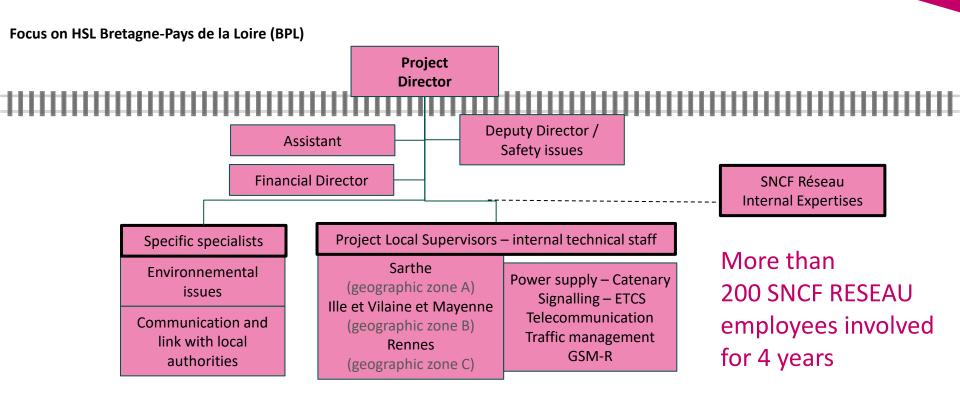
Focus on HSL Bretagne-Pays de la Loire (BPL)



Safety authorities controls

**Banks controls (Technical Advisor)** 

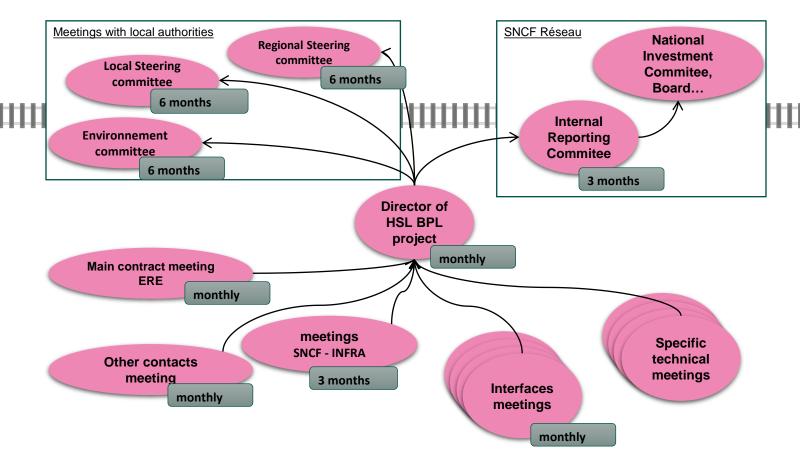
### ORGANISATION SCHEME DURING DESIGN AND BUILD



14 full time employees for BPL Project

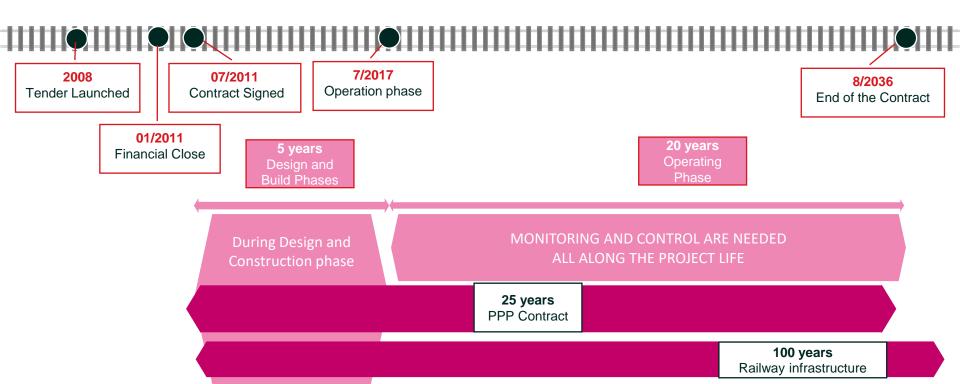


### **DESIGN AND BUILD PHASES MEETINGS**

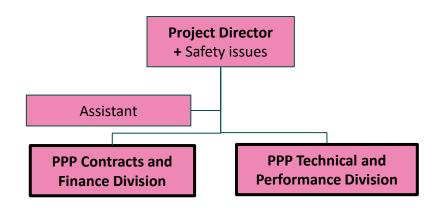


# MONITORING AND CONTROL ARE NEEDED ALSO ALL ALONG THE PROJECT LIFE

Focus on HSL Bretagne-Pays de la Loire (BPL)



### SNCF RESEAU ORGANISATION IN OPERATIONAL PHASE



10 full time employees for 3 contracts 13 Mds€

# A Specific team implemented on a long-term base

With efficiency in contract management

Quarterly monitoring committees

Management of PPP contracts in particular safety, operational, legal, financial, technical and performance, environment dimensions

General coordination of interfaces between the different SNCF Réseau entities



### **REPARTITION OF TASKS**

Project Director
+ safety issues

Assistant

PPP Contracts and Finance Division

In Charge of :
Application of the contract,
Financial monitoring of the contract...

Control of the reporting

Calculation of rents (levels, index and penalties, ...)

Impact of tax changes and refinancings

Mastery of archives

PPP Technical and Performance Division

In Charge of :
Arbitration process between
maintenance need / line operation need

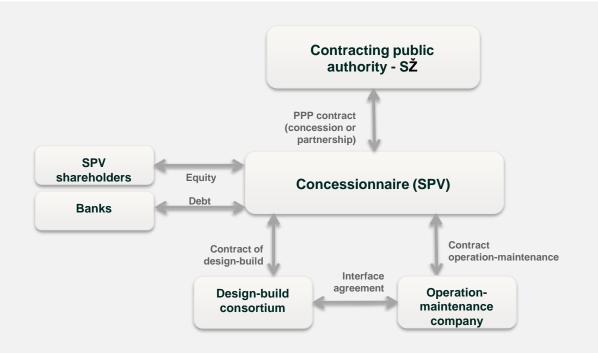
Collecting traffic information & Collection and analysis of performance criteria...

Works at interfaces, Control of works,

Transfer of land & Links with local Complaints



### RISK ANALYSIS IS NEEDED TO DEFINE A BETTER ORGANISATION







# **KPI**



### **BREAKDOWN OF PPP RENTS**

Annual rent =

MC = Maintenance Cost x Level of traffic x Indexation

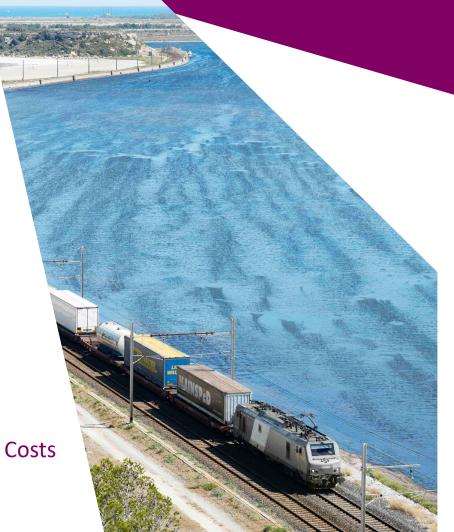
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RC = Renewal Costs x Indexation

-

Penalties = Based on KPI

Level of traffic is for +-10% of the Maintenance Costs
Penalties are capped in % of the rent



### **KPI AND RENTS**

- Define measurable KPIs
  - Level of traffic
  - Regularity
  - Availablity
  - Reliability
  - Comfort
- Define the reference values!

The reference values need to be easy to define!

If not ... change it!



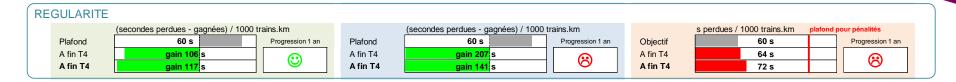
### **Level of Traffic**

- Define the way to deal with gaps between traffic measured by grantor and by SPV...
- Define the traffic to take into account during periods of data unavailability, strike, extrem weather conditions...

Level of traffic impact +-10% of the Maintenance Costs



## Example for regularity:



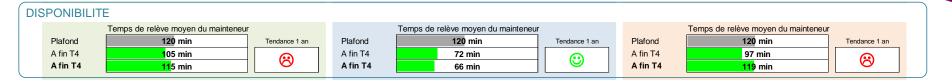
- Tr<sub>(mn)</sub> = Sum of minutes of delay per 1000 km
- Example over 1 year:
  - Nb minutes late: 200 min,
  - Number of trips: 3000,
  - Length of a journey: 300 km,
  - Tr = 200 / ((3000x300)/1000) = 0.22 min

Objective < 1 min / year

If the objective is not reached => Penalties



# Example for availability



Total time spent for Maintenane purpose

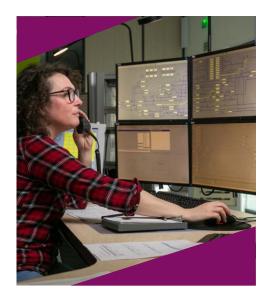
If more than defined in the contract => Penalties





## Example for reliability





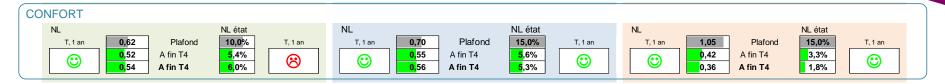
Total of incident / 100 km of railway

Objective < 15 u / 100 km / year

If the objective is not reached => Penalties



## Example for comfort indicators check:



 Control measures are carried out partly by SNCF Réseau vehicles

Or

 Measurements taken by machines validated by SNCF Réseau



If the objective is not reached => Penalties



# PENALTIES ARE CAPPED IN PPP CONTRACTS IN FRANCE

Annual rent =

MC = Maintenance Cost x Level of traffic x Indexation

+

RC = Renewal Costs x Indexation

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Penalties = Based on KPIs

Level of traffic impact +-10% of the Maintenance Costs

Penalties are capped in % of the rent



# CONCLUSIONS



### SAFETY IS ALWAYS OUR PRIORITY

Safety culture has to be transmitted from the beginning to partners

Construction company are not operators/maintainers... safety culture is not the same!

Plan controls/audits from the design and studies phases

Be present for the pre-operational phases of drafting the operation documentation (safety plan, particularly on the interfaces)

Implement audit and improvement plans

SAFETY INDICATORS NEED TO BE FOLLOWED





### FEEDBACK AND VIGILANCE: CONTRACTS MANAGERS REQUIRED

### SAFETY

- Approval process
- Interface management

### NON-PERFORMANCE OF THE LINE

- Penalties... but not only... need to work together to improve the performance

### **CONTRACT CHANGES**

- Process of evolution of the contract ...
- ... because in 25/50 years there are always some changes!

#### INSURANCE COMPANY and THIRD PARTY

- Insurance covers the residual risk not covered by the parties
- For example, difficulties in anticipating changes in the insurance market

### ARBITRATION vs LITIGATION



# To include long-term contracts managers is a key factor of success...





# DEKUJI THANK YOU MERCI

