



**International Seminar on Road Financing and Investment
Ngurdoto Mountain Lodge in Arusha, TANZANIA,
16th – 20th April 2007**

**Public-Private Partnership (P.P.P.)
In Italy**

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Stretto di Messina S.p.A.**

Public-Private Partnership (P.P.P.)



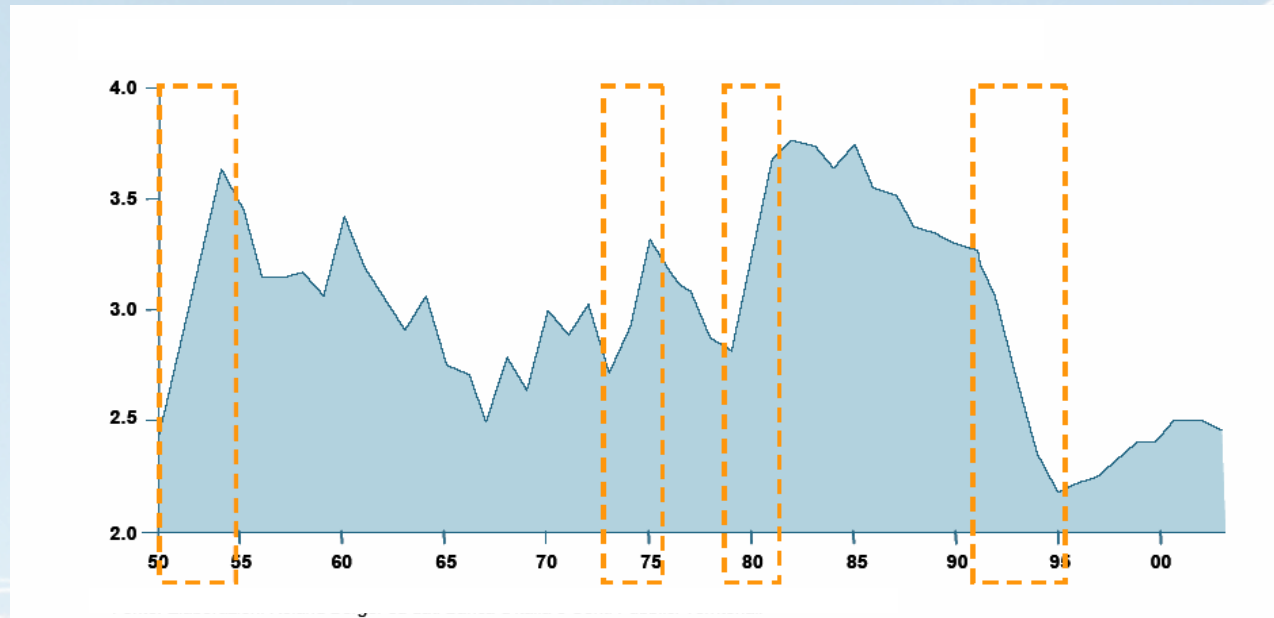
Public-Private Partnership (P.P.P.)

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- **First steps in the framework of P.P.P.**
 - Italian Infrastructural Trends
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 - Italian Rules of law
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- **Present situation in Italy**
 - Italian market
 - The use of the P.P.P. in the transport sector
- **Financing plan of Stretto di Messina S.p.A.**

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Italian public investments in % on GDP (1950-2003)



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Italian rules of law

- The introduction of the Promoter in 1998
- The introduction of the role the General Contractor in 2001
- The creation of *ad hoc* bodies starting from 1999
- The redefinition of the role of the Cassa Depositi e Prestiti S.p.A. (State controlled bank devoted to finance local entities) in 2003, with the aim of favouring the growth of public investments on infrastructures
- The coding of simplified and privileged paths in 2002, supplemented by the “Consolidated Text of rules and regulations on public contracts for work and supplies” in 2006.

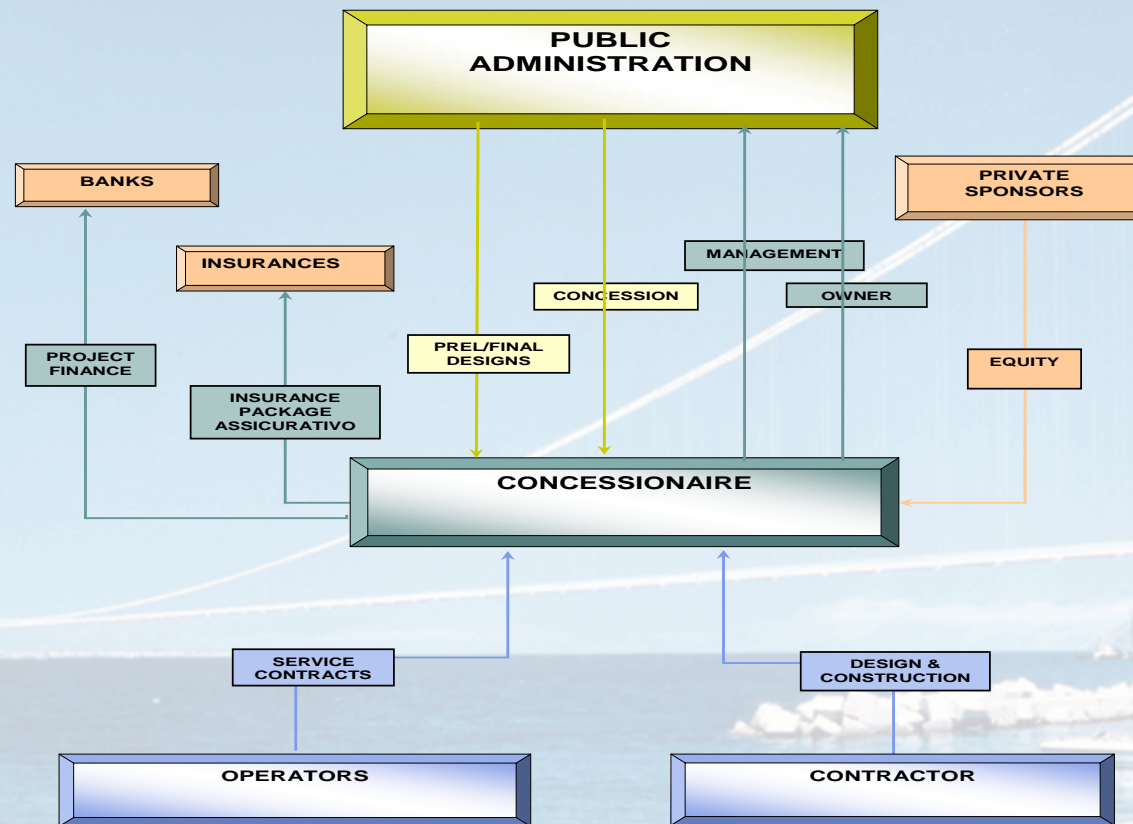
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P.P.P. Models adopted

- **Construction and management Concession**
- **Project Financing**
- **Other management concessions**
- **Joint Ventures**
- **General Contractor**

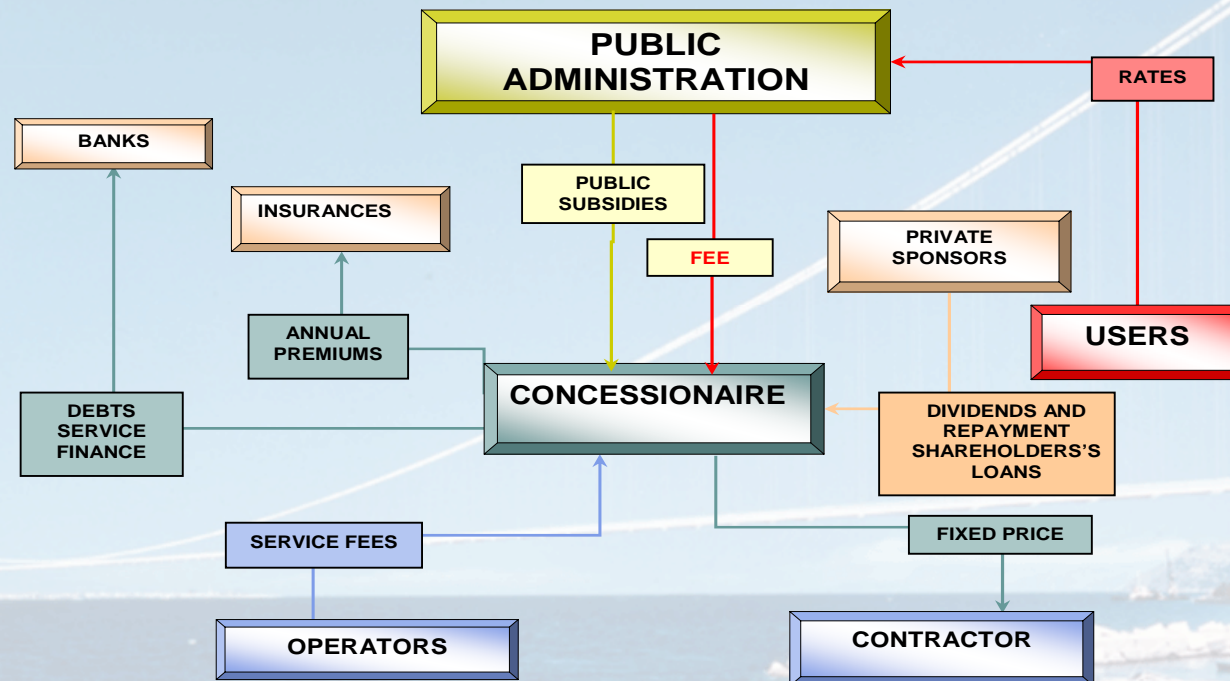
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CONCESSION Pursuant to Art. 19 Law 109/94 as a.&s.



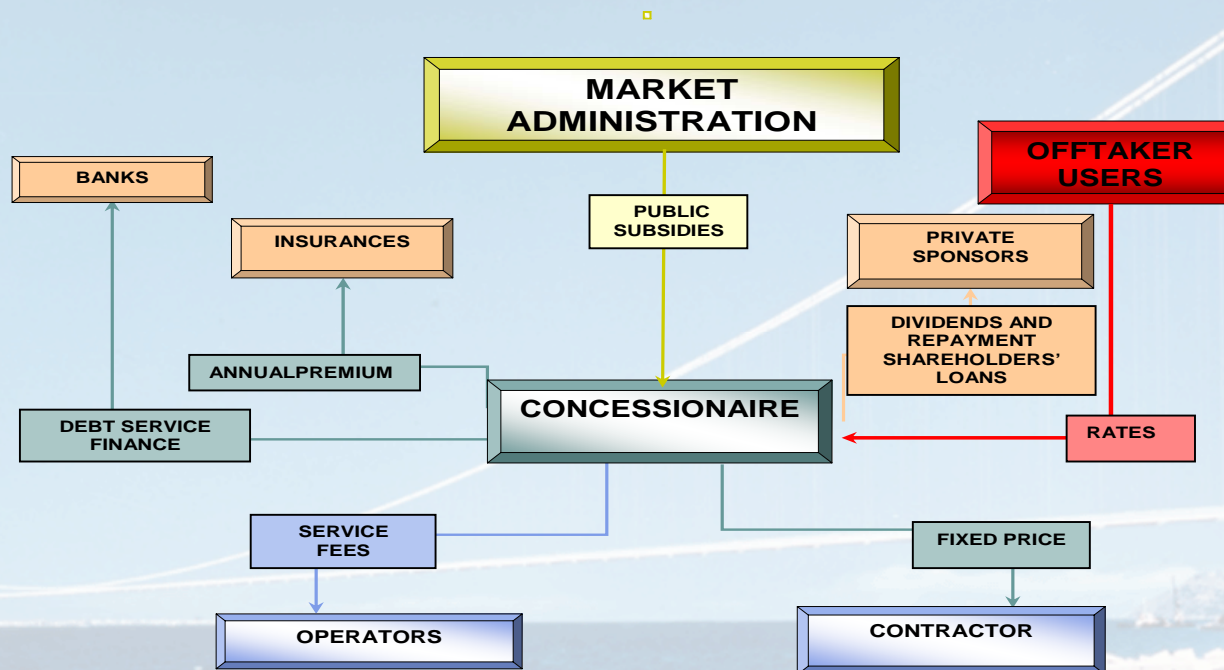
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RISK PUBLIC ADMINISTRATION



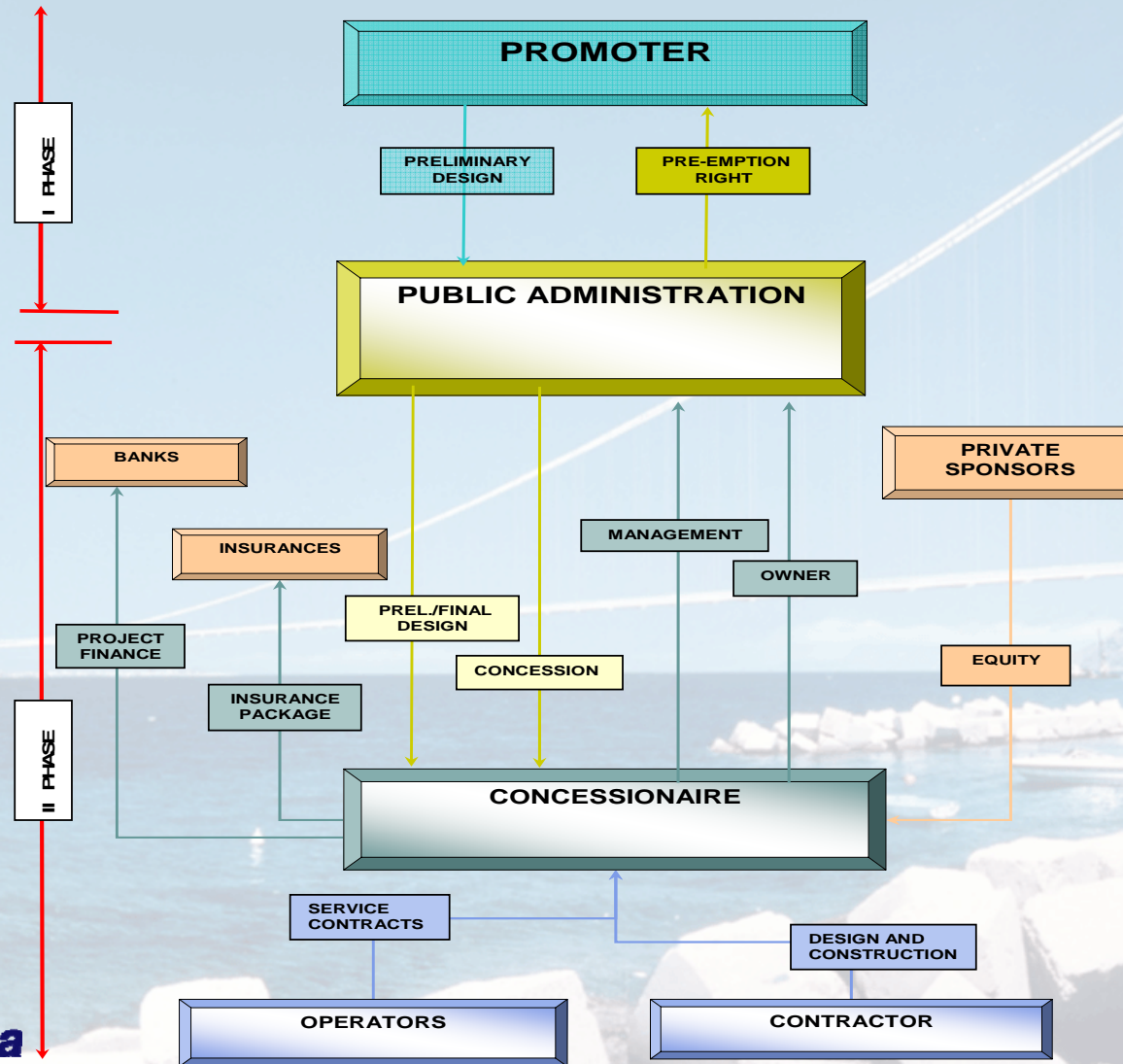
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RISK PRIVATE PARTNER



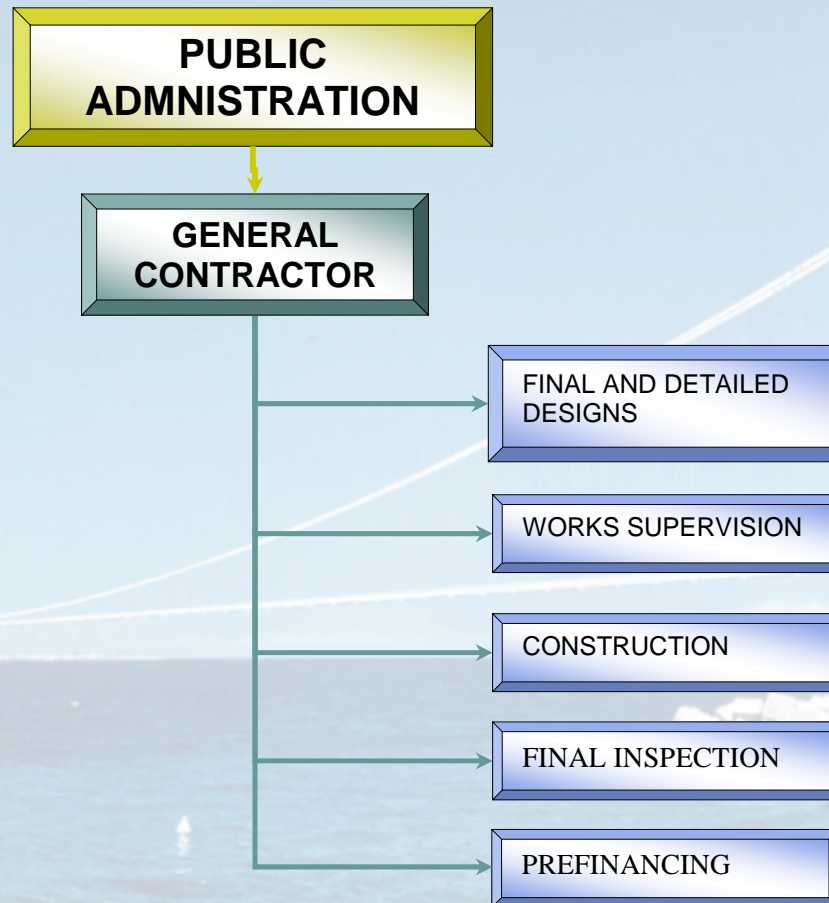
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PROJECT FINANCING Pursuant to Art. 37 bis-novies Law 109/94 as a.&s.



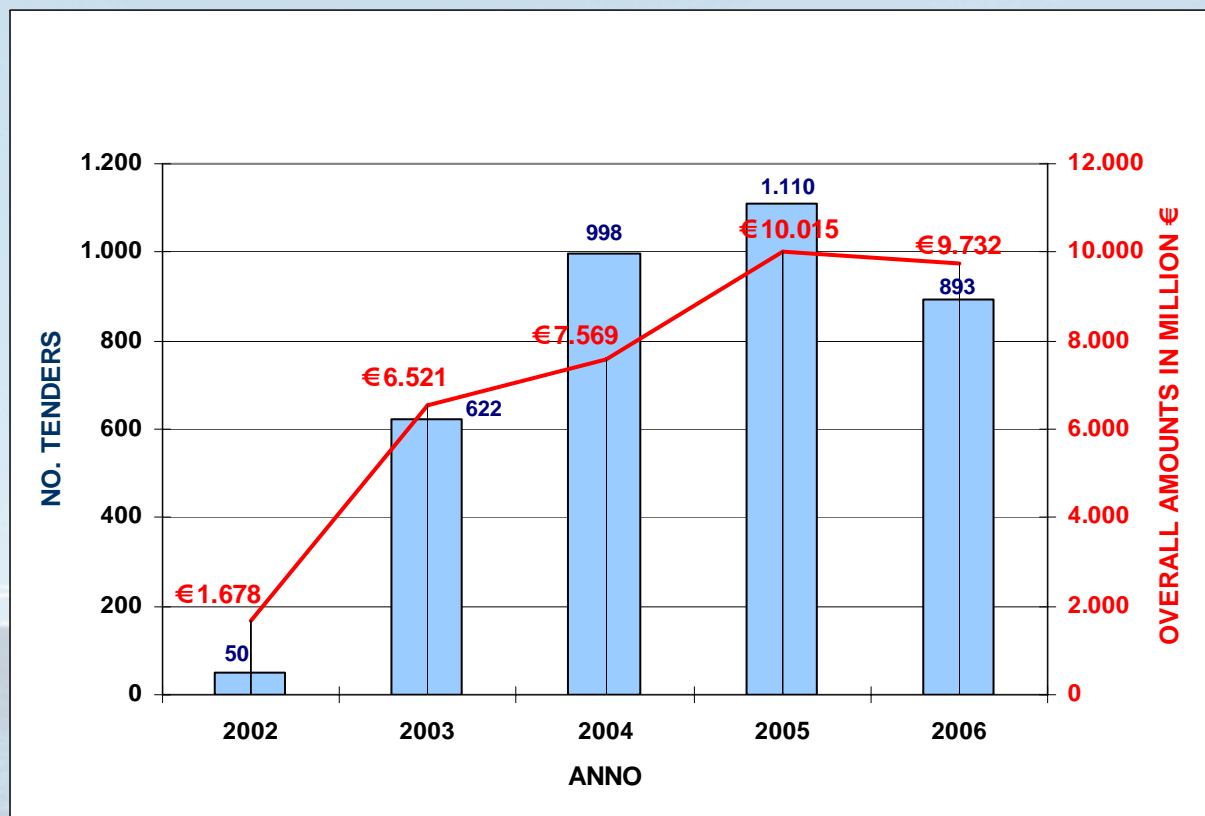
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GENERAL CONTRACTOR



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EVOLUTION OF PPP MARKET IN ITALY 2002/2006 PER NUMBER AND AMOUNT

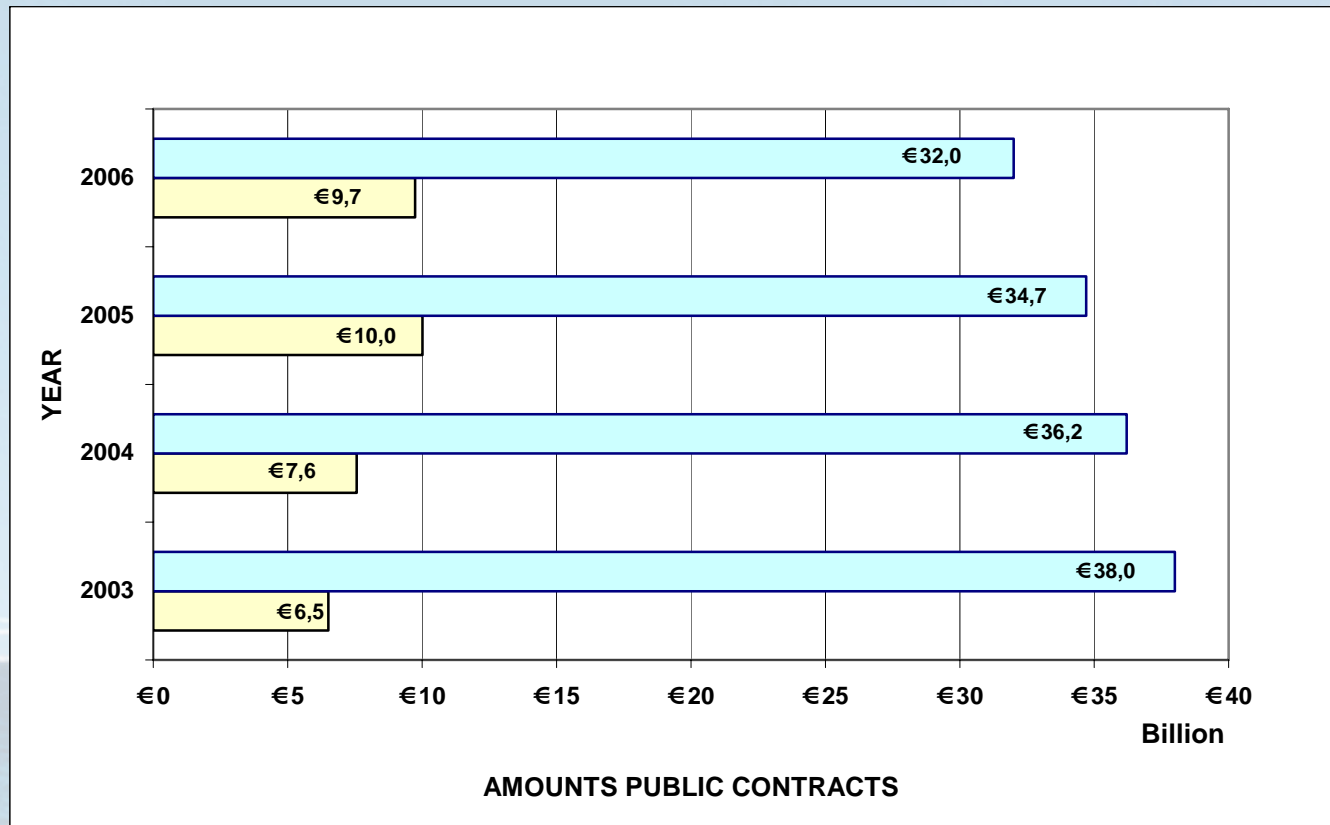


■ No. tenders
■ Amounts

Source :Original processing on data of the Project Financing Observatory

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EVOLUTION OF PPP MARKET OVER TOTAL PUBLIC INVESTMENTS

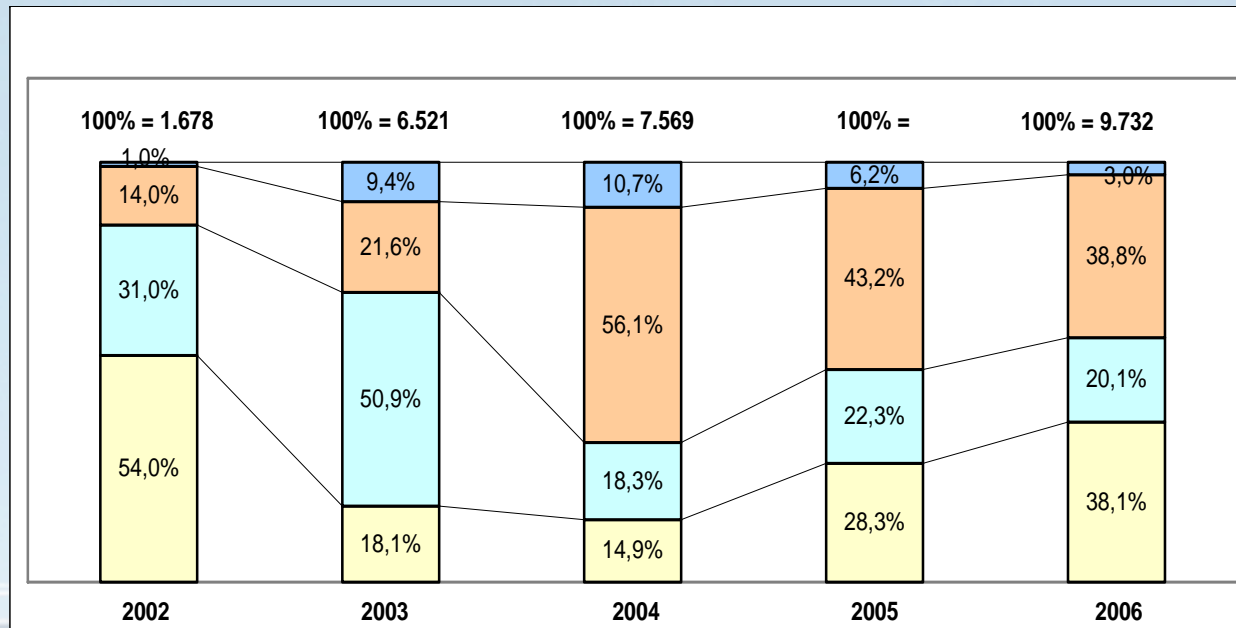


Amounts PPP tenders
Total amounts public works

Source :Original processing on data of the Project Financing Observatory

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EVOLUTION OF THE PPP MARKET IN ITALY PER MODEL



- Project Finance
- Concession construction and management
- Other management concessions
- Other models

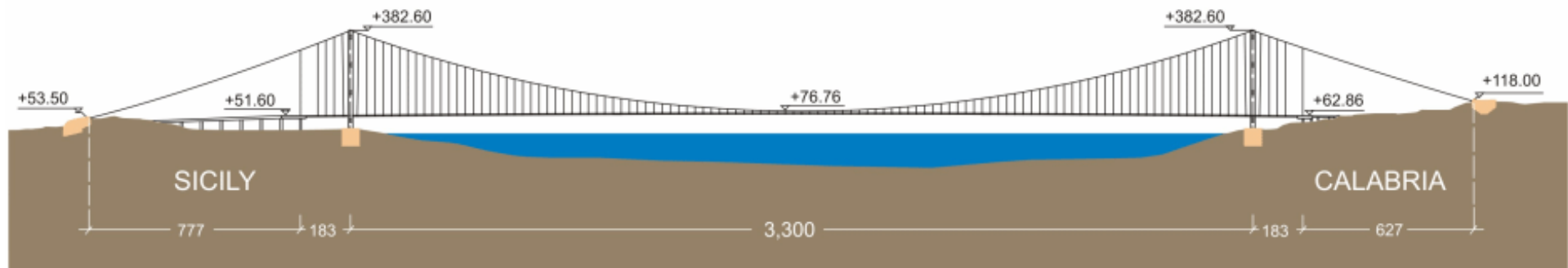
Source :Original processing on data of the Project Financing Observatory

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General arrangement of the suspension bridge

LONGITUDINAL SECTION



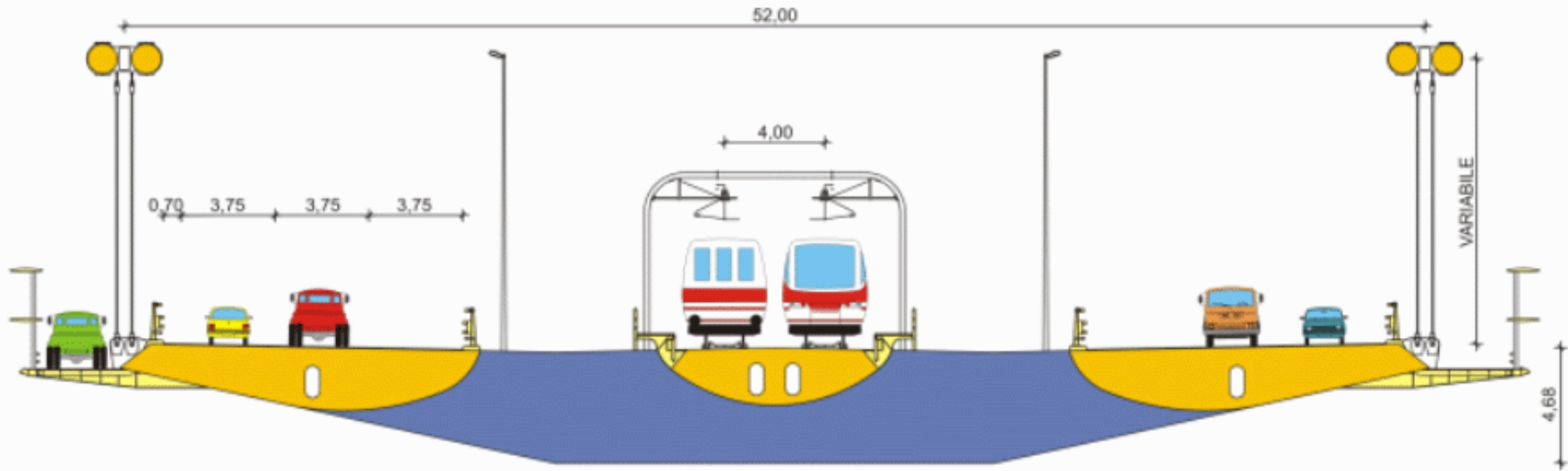
Central span: 3,300 m

Suspended side spans: 183 m

Overall suspended length: 3,666 m

Distance between anchorages: 5,070 m

Deck section



Deck width:

60m

Highway lanes:

2 x 2 lanes + emergency

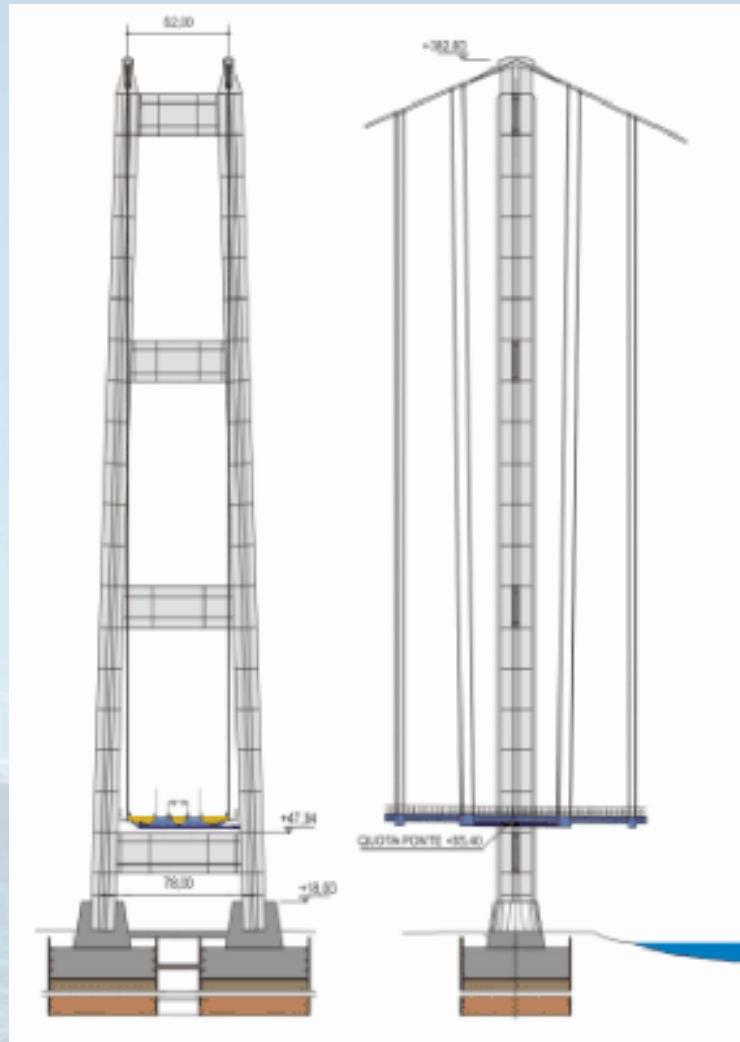
Railway tracks:

2

Traffic capacity:

**6,000 vehicles / hr
200 trains / day**

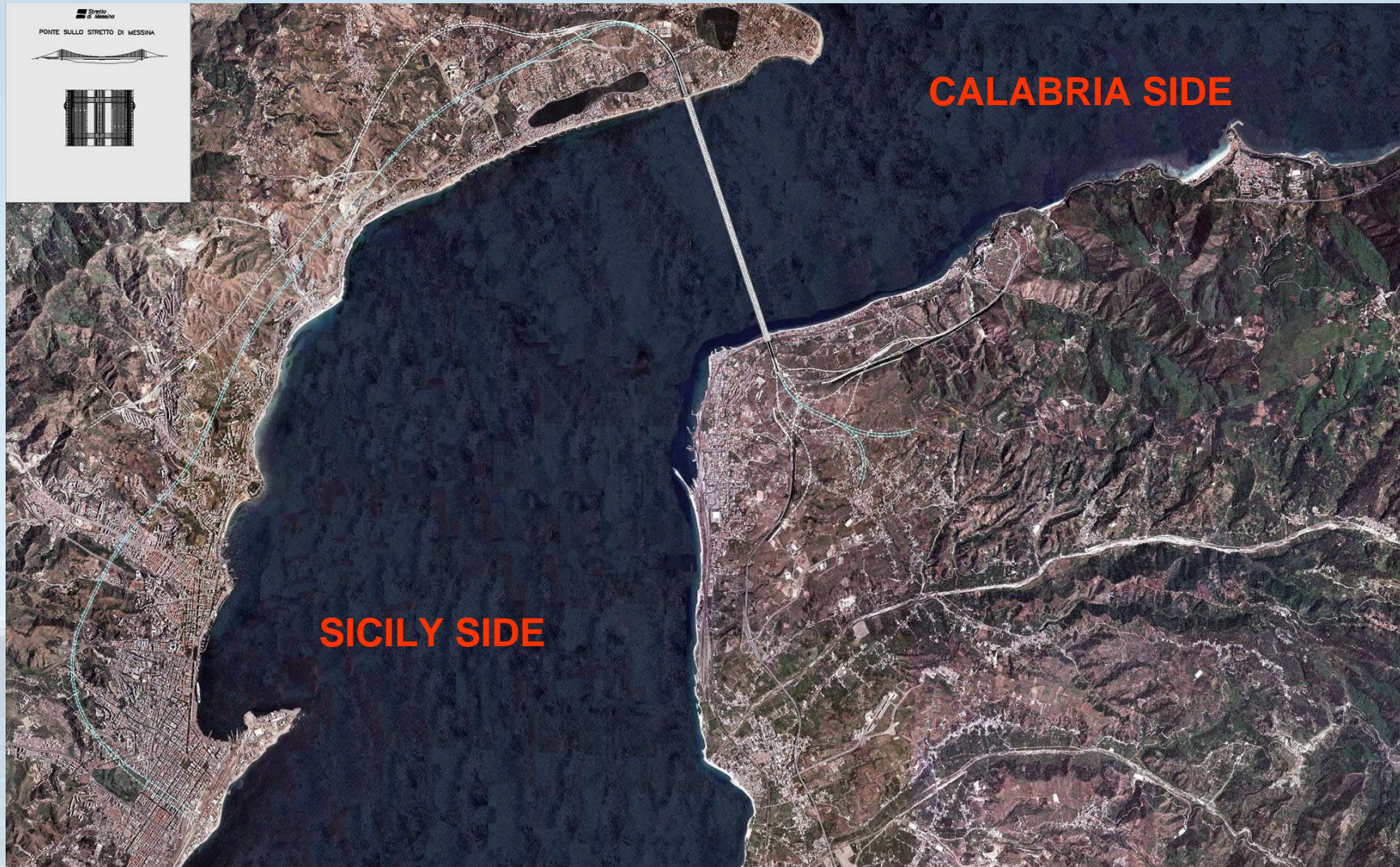
Tower and navigation channel



Tower height: 383 m

Navigation clearance 65 x 600 m

Motorway and Railway Links



Akashi Kaikyo Bridge, Japan



Great Belt East Bridge, Denmark



Tsing Ma Bridge, Hong Kong



Comparisons

	Messina	Akashi Kaikyo	Great Belt	Tsing Ma
Year of opening	2012	1998	1998	1997
Main span length	3,300 m	1,991 m	1,624 m	1,377 m
Suspended length	3,666 m	3,911 m	2,694 m	1,733 m
Height of towers	383 m	298 m	254 m	206 m
Cable sag/span ratio	1/11	1/10	1/9	1/11
Cable diameter	4 x 1.24 m	2 x 1.12 m	2 x 0.85 m	2 x 1.10 m
Total weight of cables	166,800 t	50,500 t	26,000 t	28,000 t
Overall width of deck	61 m	36 m	31 m	41 m
Weight of deck	18.1 t/m	23.0 t/m	11.1 t/m	20.8 t/m
Type of deck	Aerodynamic multi-box	Truss	Aerodynamic box	Profiled truss

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Financial Plan

Main Criteria:

- To complete the work according to the time shedule approved;
- To eliminate any public fund;
- To involve as many private partners as possible;
- To amortize in the worst case at least 50% of the investment during the operation period;
- To repay to Stretto di Messina a “redemption price” of max 50% of the investment through e new concession tender;
- To guarantee 40% of the investment equal to 2,5 billions Euro by contribution of shareholders;
- To guarantee the remaining 60% of the investment equal to 3,5 billions Euro on the international market using the project finance scheme.

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New scenario of Stretto di Messina

- 1. Stretto di Messina is confirmed as Concessionaire of the permanent link on Messina Strait.**
- 2. Change in the shereholding structure of the company Stretto di Messina.**
- 3. Change in the allocation of financial resources of Fintecna shareholder in relation to the company Stretto di Messina.**
- 4. The company Stretto di Messina is authorised to work abroad.**