



Workshop 1 Tackling public sector challenges through smart combination of Innovation and Green public procurement

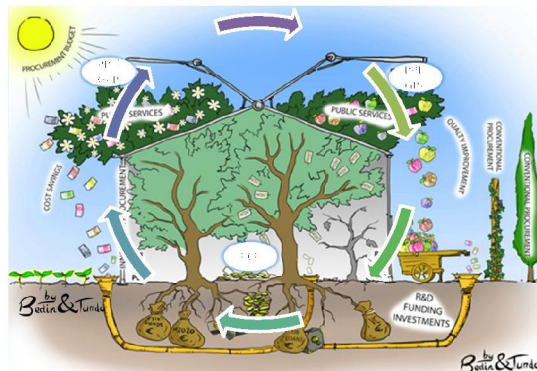
Tallin, Thursday 19 October 2017

Sara Bedin

European Independent Expert on Innovation Public Procurement

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Circularity in pre-commercial public procurement



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Lombardy Region in figures

GDP 20.7% OF ITALIAN GDP

(2.7% of EUROPEAN GDP)



EXPENDITURE for HEALTH AND HEALTH-CARE SERVICES

75% OF REGIONAL EXPENDITURE

(6% OF REGIONAL GDP)

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Niguarda Hospital in figures

74 CLINICAL UNITS IN 11 CLINICAL DEPARTMENTS

3.000.000 AMBULATORY VISITS PER YEAR

50.000 ADMISSIONS PER YEAR



1200 BEDS

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Problem, Need, Expected impacts

The problem:

- high rate of injuries (and collateral effects) that the socio-health workers were facing while moving the hospital beds around the hospital via manual pushing and pulling;
- long transport times.



The need:

- Automated universal medical device for moving hospital beds which result in a significant advance in terms of technology and performance and, at the same time, cost reduction along the whole life-cycle and environmental benefits.

The expected impact: enhance the service productivity and reduce the negative impact on the cost of the public services offered, and the environment

- improve patient comfort and safety when moved,
- avoid collateral and unwanted effect affecting nursing personnel and socio-health operators,
- less personnel need and more efficient socio-health workers allocation, generally below strength for the needs,
- reduction in the (industrialization) cost of the solution.
- reduction of CO2 footprint, recyclability of material.

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«Green» provisions

- The resulting devices had to be compliant with the Restriction of Hazardous Substances and Waste of Electrical and Electronic Equipment Directive imposed.
 - The (new) bed movers should be treated properly and destined for the differentiated recovery of the materials they are composed of, such as copper, iron, steel, aluminum, in addition to plastic, thus avoiding waste of resources that can be reused.

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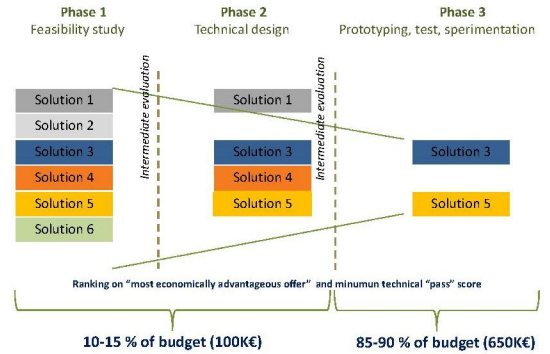
Awarding criteria system

Criteria for assigning the Technical Score in Phase I, II, III

CODE	SUB-CRITERION	DESCRIPTION	MAXIMUM TECHNICAL SCORE PHASE I	MINIMUM TECHNICAL SCORE PHASE I
1	Ability to satisfy requirements	Level of solution satisfaction (in terms of quality and completeness) of functional and performance requisites.	25.00	12.50
2	Level of innovation	Ability of the solution to innovate and significantly improve the operational context in which the same is to be introduced.	22.00	11.00
3	Industrialisation and technical feasibility	Realisability and reproducibility of the solution in accordance with an industrial process that is appropriate relative to the reference market.	20.00	10.00
4	Reduction of overall cost	Improvements adopted to limit the costs of the solution throughout its entire life cycle (production, delivery, installation, use, maintenance, management and disposal).	15.00	7.50
5	Reduction of environmental impact	Improvements and measures adopted to ensure the environmental sustainability of the solution throughout the entire life cycle (production, delivery, installation, use, maintenance, management and disposal).	10.00	5.00
6	Quality of project organisation	Coherece and quality of the organisation of work, relative to the technical/scientific objectives and competences of the research team effectively committed to the project.	8.00	4.00

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The PCP step-wise procedure



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Results

Relevant trade-offs have been considered and evaluated (both from the demand and offer side), such as:

- Stability and resistance *versus* **lightness and minor disposal**
- Lightness *versus* **production cost**.

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Achievements

Both the innovative (improved quality and new functionalities) and the environmental aspects (reduction of CO2 footprint, recyclability of material) over the entire life cycle of the product has been achieved.

The resulting devices are designed to be recyclable for at least 50% of their weight.

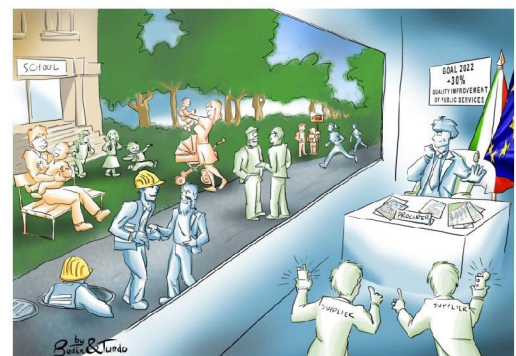
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PCP and PPI/GPP: complementary procedures for circular procurement

In the downstream procurement, the green and circular economy aspects will be emphasized, consistently with the Regional Law 29/2016 that promotes PCP (upstream) and innovation + green procurement (downstream), creating the relevant links.

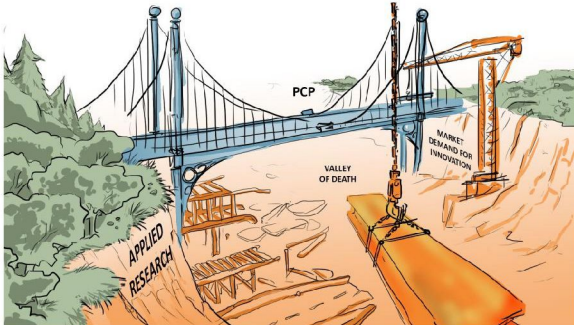
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PCP: allowing public sector to perform their functions and deliver key services effectively and efficiently, thus optimizing value-for-money in public spending



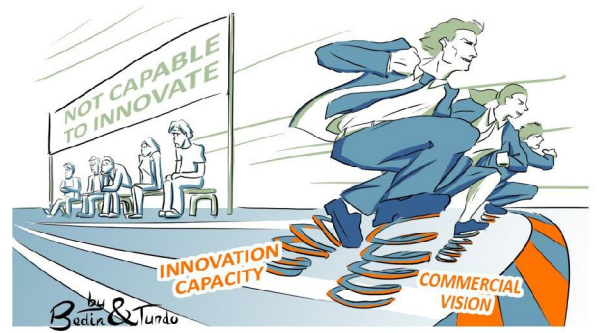
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PCP: development site of innovative / green solutions



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R&D&I procurement = competition



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Thank you for your attention!

For further details and opportunities:

Sara BEDIN

e-mail: sara.bedin@appaltoprecommerciale.it



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