

# GREEN BERTH

*Promotion of Port Communities SMEs role in Energy Efficiency  
and  
GREEN Technologies for BERTHING Operations*

*C (4). Technology transferability and pilots design  
WP(4.1) Technology validation and transferability*

*First results analysis*



Projet cofinancé par le Fonds Européen de  
Développement Régional

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## Technology validation and transferability

- The objective of this activity is the evaluation of described technologies prepared during WP 4.1. and to evaluate the possibility of the transferability of the best practices described.
- The possibility for the transferability of the proposed technologies are performed by means of a questionnaire (8 questions) with a specific rating scale (1-5).



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## EVALUATED MEASURES

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Technologies to be evaluated in the port of Venice are 9:

- Implementation of LED lighting system in port area
- Goods Lifting Equipment (crane) with saving energy system
- EMS system to control energy management
- Passenger electric mobility solution implementation
- Goods transportation green system (e.g. vehicles retrofitting)
- Nautical services system (hybrid vessels/vehicles etc.)
- Green power production for port activities (wind/solar/wave)
- Cold ironing system for vessels at berth
- Alternative fuel use



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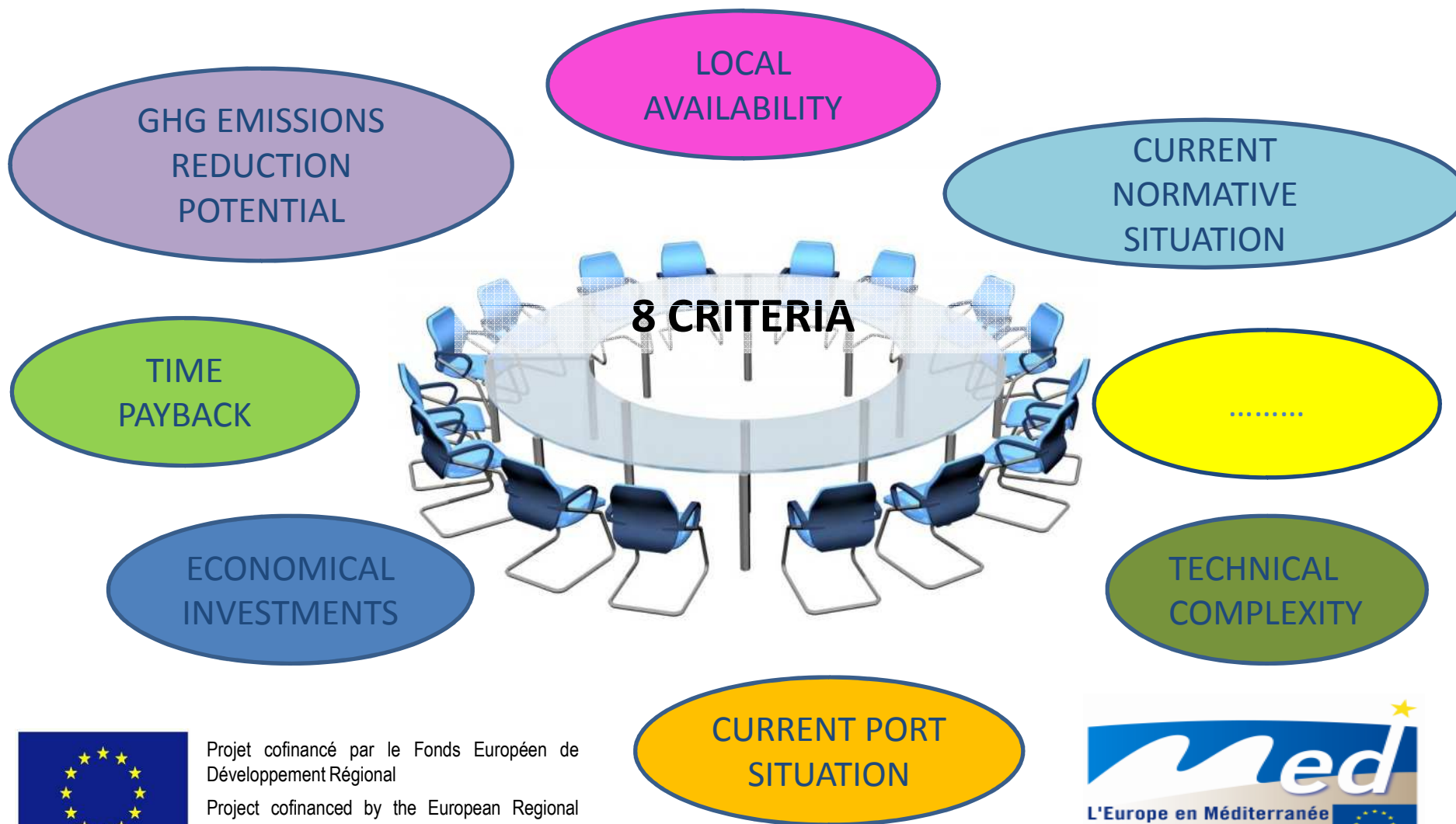




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# CRITERIA FOR SELECTING ENERGY IMPROVING MEASURES

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## RANGE FOR SELECTING ENERGY IMPROVING MEASURES

In order to assess each option through the different criteria a specific rating scale is proposed:

The evaluators will assign punctuation to each of the best practices according to the scale presented previously. In this manner a decision matrix will be generated for each best practice.

1	Totally disagree-strongly unfavorable to the concept
2	Disagree-Somewhat unfavorable
3	Indifferent-Undecided
4	Agree- somewhat favorable to the concept
5	Totally agree- favorable to the concept



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# ACTIONS EVALUATION : QUESTIONNAIRES ANALYSIS

Questionnaires have been sent to different stakeholders: terminals, tug company, harbour master etc.

Scores were very different according to personal vision and depending on different activity performed by the evaluator.

Technology	TIV	ERF	TRI	PANFIDO	VTP	VRPM	APV	MSERVICE	VECON	AGIRE	VERITAS
LED	37	36	37	33	39	37	39	31	27	37	34
Goods Lifting Equipment (crane)	32	26	29	27	27	32	29	26	26	29	36
EMS system	31	40	33	32	38	31	34	31	31	36	29
Passenger electric mobility system	29	31	24	23	25	20	38	27	26	32	30
Goods transportation green system	29	18	19	20	25	20	27	26	26	30	28
Nautical services green system	30	22	20	27	20	24	23	25	23	30	27
Green power production	40	36	37	32	24	31	21	31	28	39	26
Cold ironing system	28	26	29	27	17	21	17	30	27	30	37
Alternative fuel use	27	26	37	33	33	25	23	27	22	31	40



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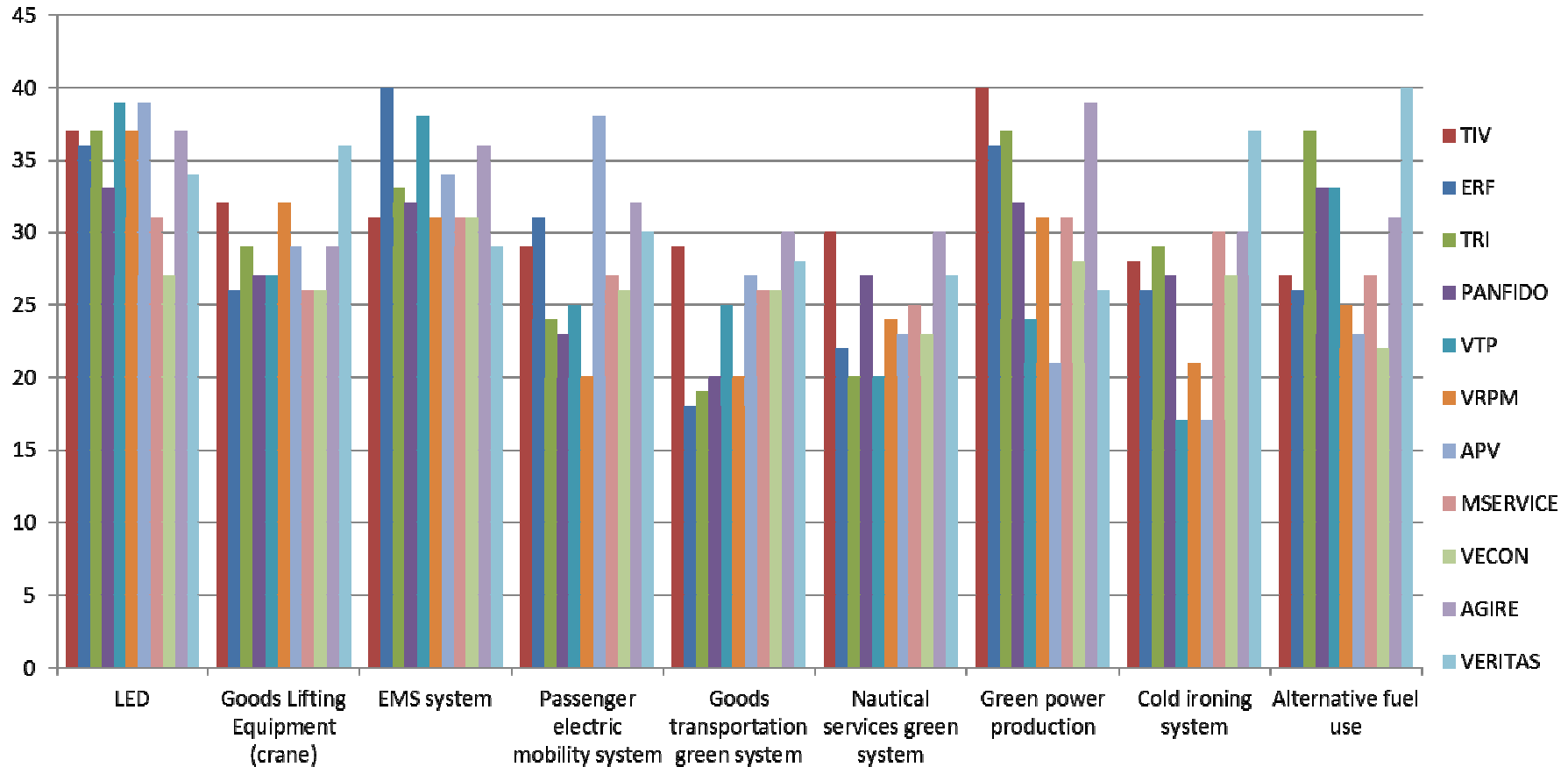


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# ACTIONS EVALUATION :



# QUESTIONNAIRES ANALYSIS – FIRST RESULTS



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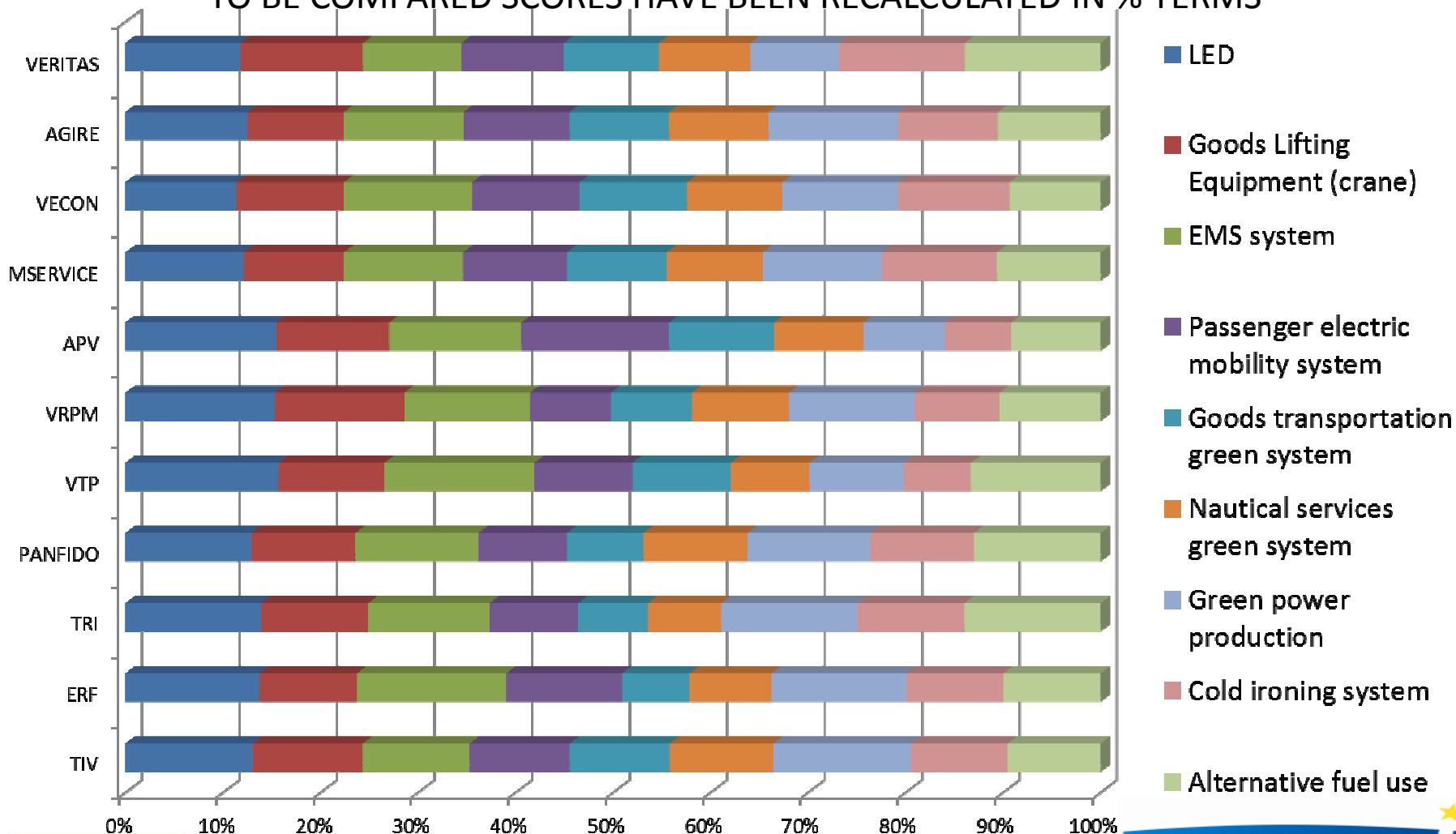
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# ACTIONS EVALUATION :QUESTIONNAIRES

## ANALYSIS – FIRST RESULTS



TO BE COMPARED SCORES HAVE BEEN RECALCULATED IN % TERMS



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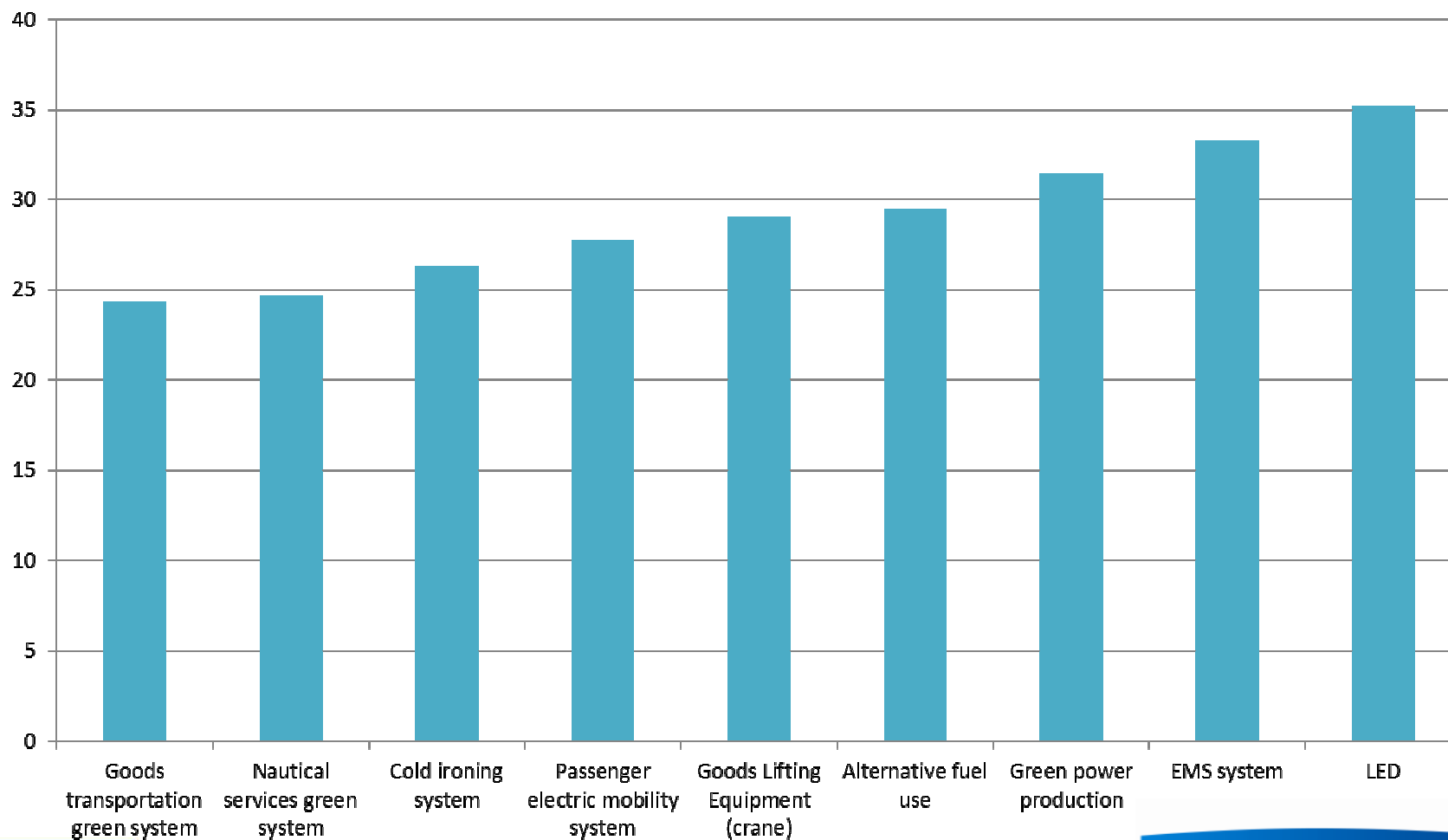


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# ACTIONS EVALUATION : QUESTIONNAIRES ANALYSIS – FIRST RESULTS

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## Scores - medium

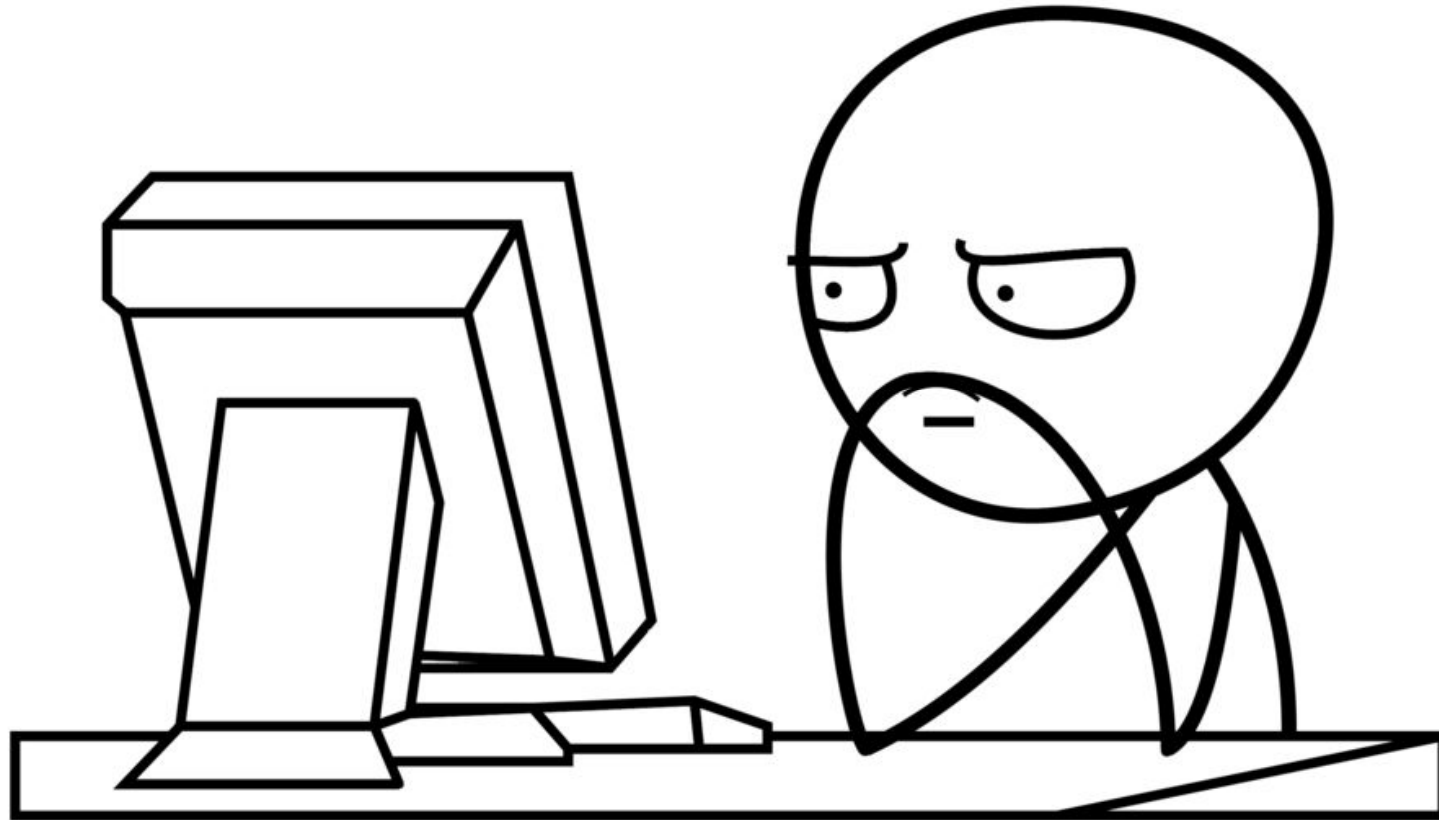


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**ACTIONS EVALUATION :**  
**QUESTIONARIES ANALYSIS...**  
**Waiting for missing questionnaires...**



**To complete our analysis...**



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***THANK YOU FOR THE  
ATTENTION!***

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