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Empowering Business in **Real Time.**

PI Infrastructure for the Enterprise.

SKIPPER

EMPOWER BUSINESS WITH REAL TIME TOOLS

Armando Soares
Jorge Neves
Miguel Patena Forte

Who?

Where?

What?

Why?

How?

questions

www.w.h.questions



Energias de Portugal

EDP Group



Renewables

U.S.A.

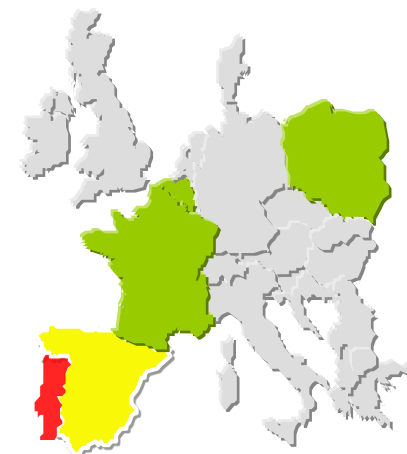
Generation capacity
1,556 MW

Energy generated (2007)
2,003 GWh

Europe

Generation capacity
2,290 MW

Energy generated
1,957 GWh



Brazil

Generation capacity
1.044 MW

Electricity distribution
12,731 GWh
3,284 thousand customers



Portugal

Generation capacity
9,003 MW

Electricity distribution
23,129 GWh
6,067 thousand customers

Gas distribution
188 thousand customers

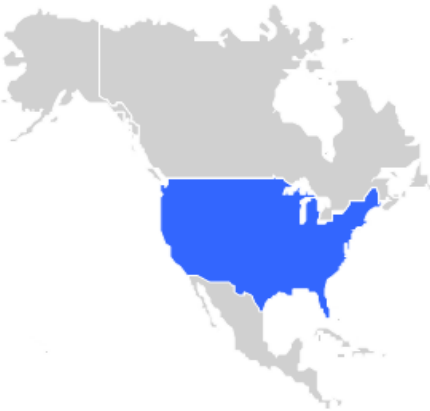


Spain

Generation capacity
2.978 MW

Electricity distribution
4,911 GWh
623 thousand customers

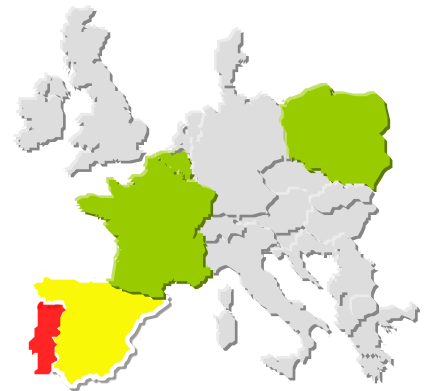
Gas supply
496 thousand customers



Renewables



edp renováveis



Brazil



energias do brasil



Portugal



edp



edp gás



Spain



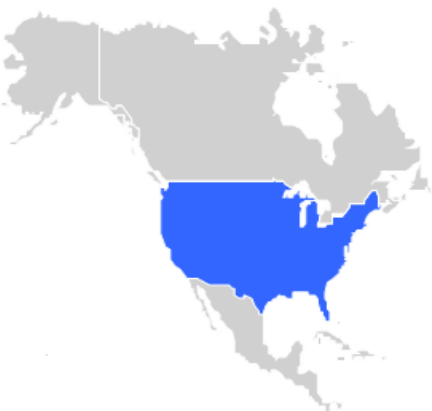
**naturgas
energia**



hc energía



System, Knowledge, Information, Plant, PERFORMANCE



Portugal



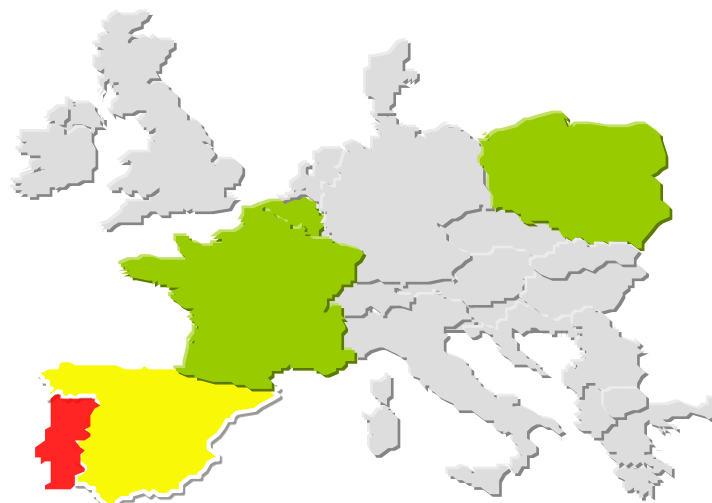
edp



Spain

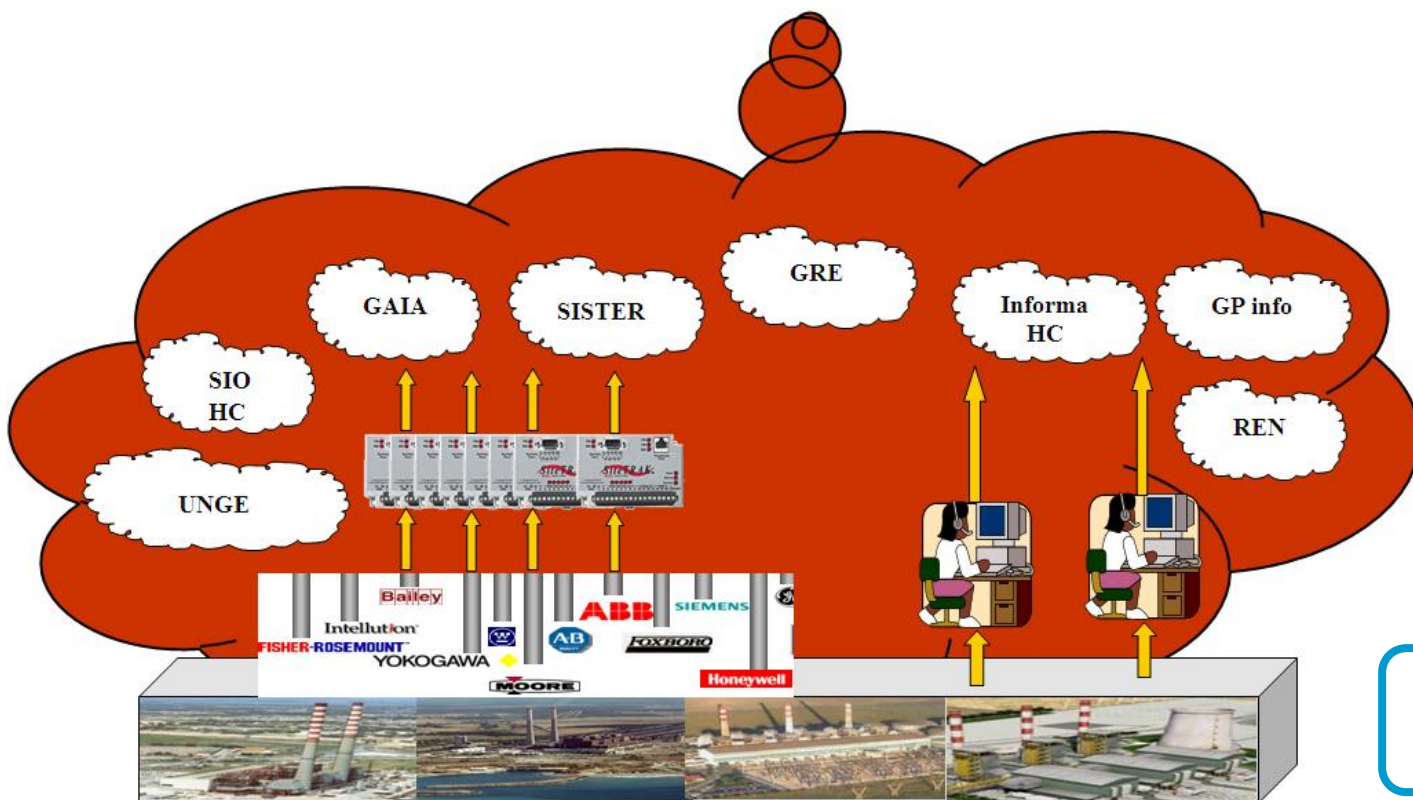


hc energia



At this stage the project is focused on Portugal and Spain

The way we are managing our information



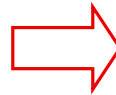
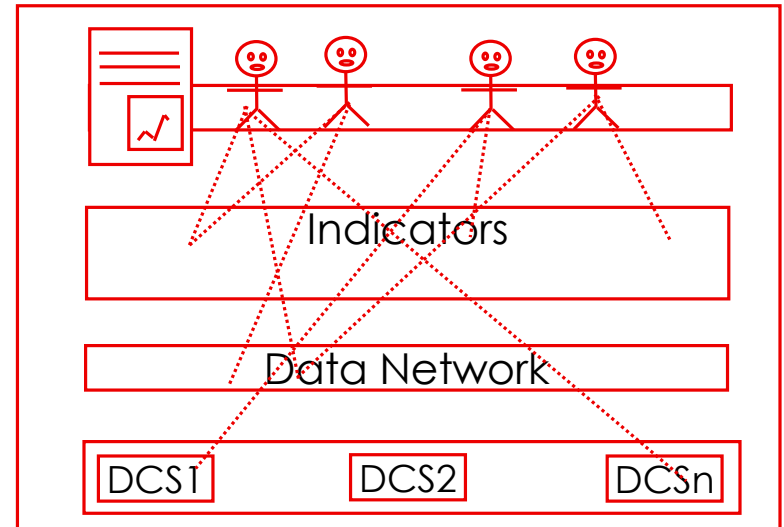
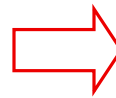
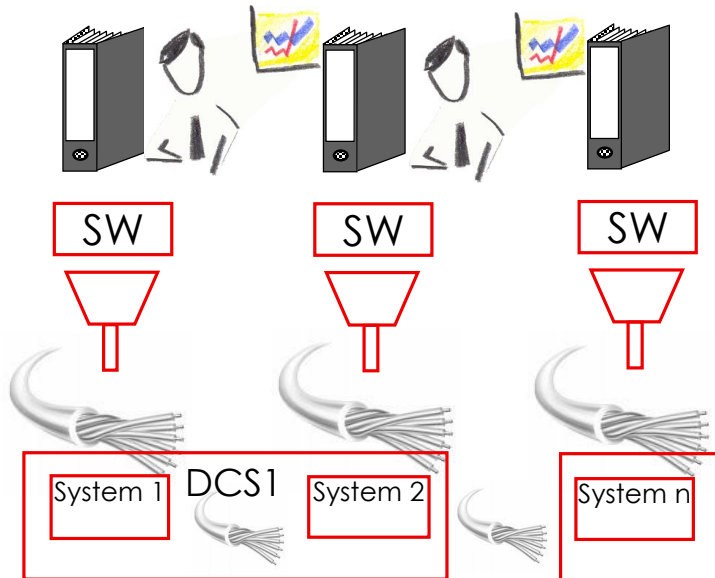
Serving

Processing

Acquiring

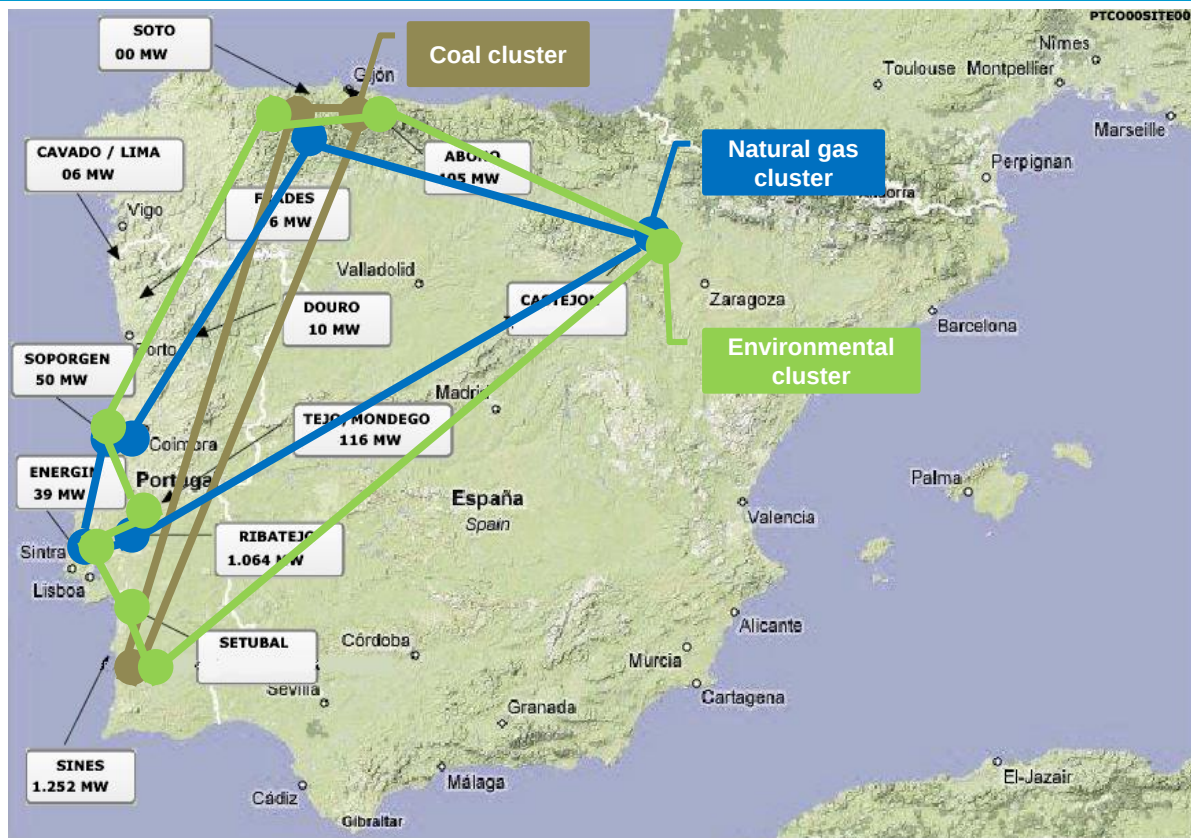
Each application acquiring, processing and serving its own data.

Moving from each one working by itself to everyone sharing information and working together



Because we expect to:

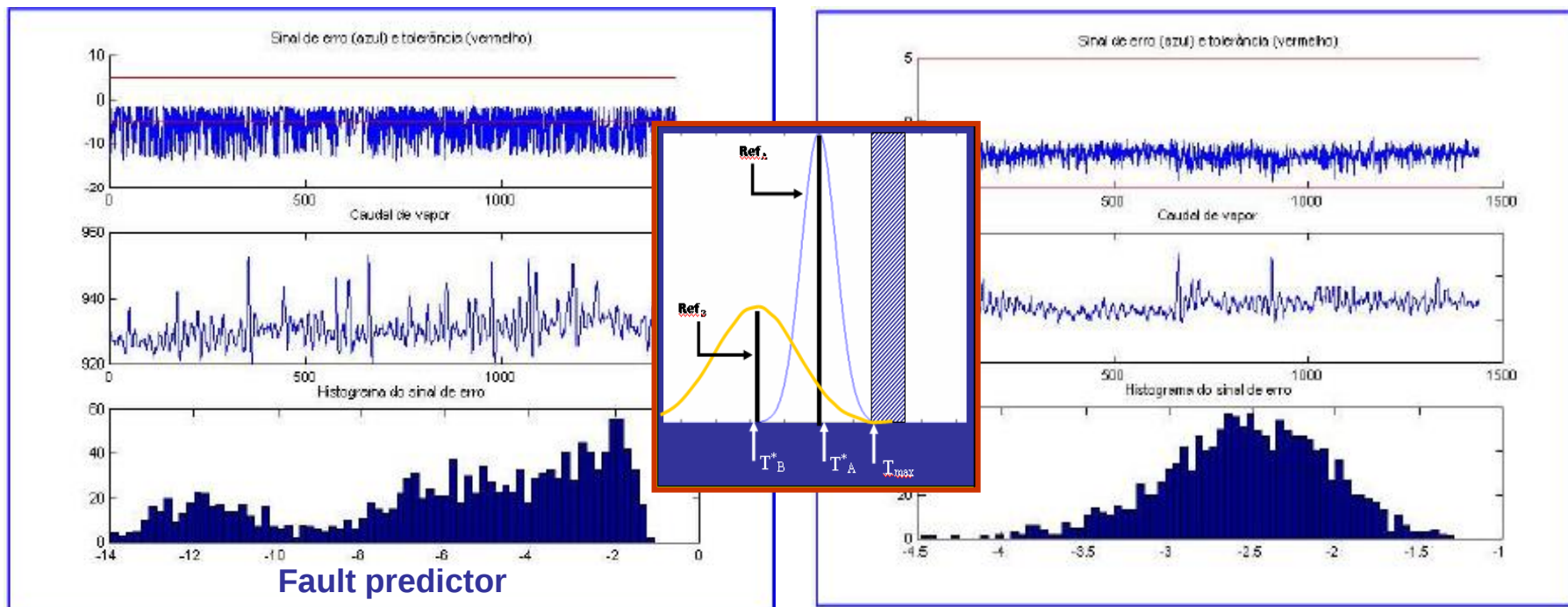
create expertise clusters of EDP collaborators monitoring all EDP power plants in a geographical independent way avoiding man power duplication.



Because we expect to:

promote expertise clusters of EDP collaborators monitoring all EDP power plants in a geographical independent way avoiding man power duplication.

increase our ability to detect in real time malfunctions or non optimized operational conditions.

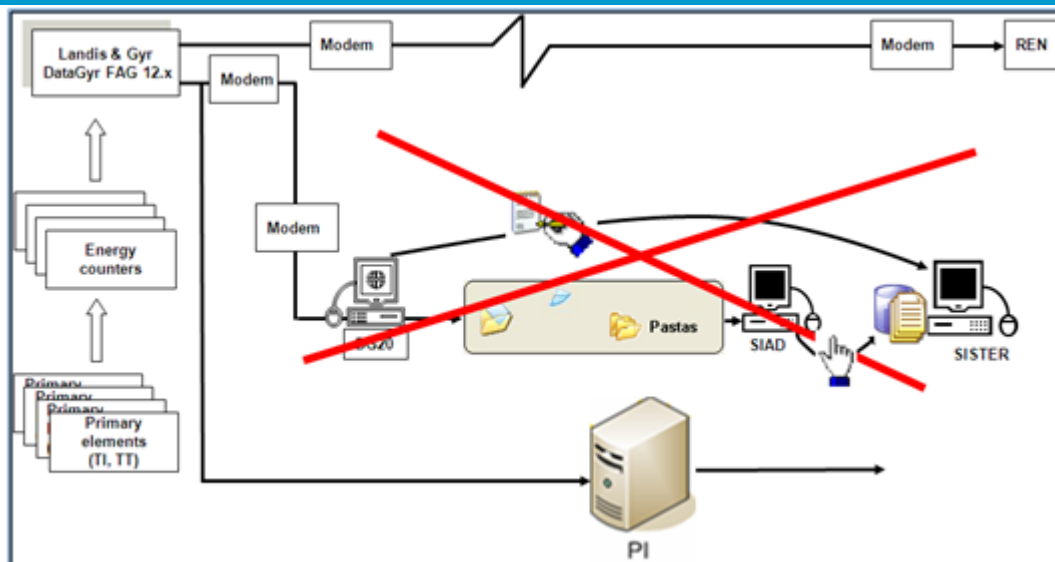


Because we expect to:

promote expertise clusters of EDP collaborators monitoring all EDP power plants in a geographical independent way avoiding man power duplication.

increase our ability to detect in real time malfunctions or non optimized operational conditions.

put out of service old and dedicated systems with important maintenance requirements.



Because we expect to:

promote expertise clusters of EDP collaborators monitoring all EDP power plants in a geographical independent way avoiding man power duplication.

increase our ability to detect in real time malfunctions or non optimized operational conditions.

put out of service old and dedicated systems with important maintenance requirements.

serve real-time management information from a single and validated source.

decrease the start-up time of new power plant operational teams and help the staff mobility between power plants .

Promoting the Evolution, Modernization and Consolidation of EDP Information Systems

Sharing information between EDP collaborators

Promoting world wide data access

Providing on line operational data to all EDP collaborators

Promoting networking between EDP collaborators

Growing and spreading knowledge

Spreading the EDP way to new EDP plants

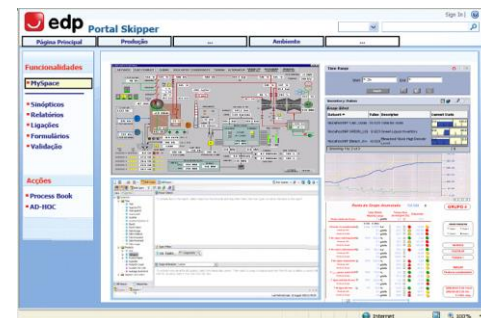
Open system



Scalable



IT state of the art



Easy



Universal

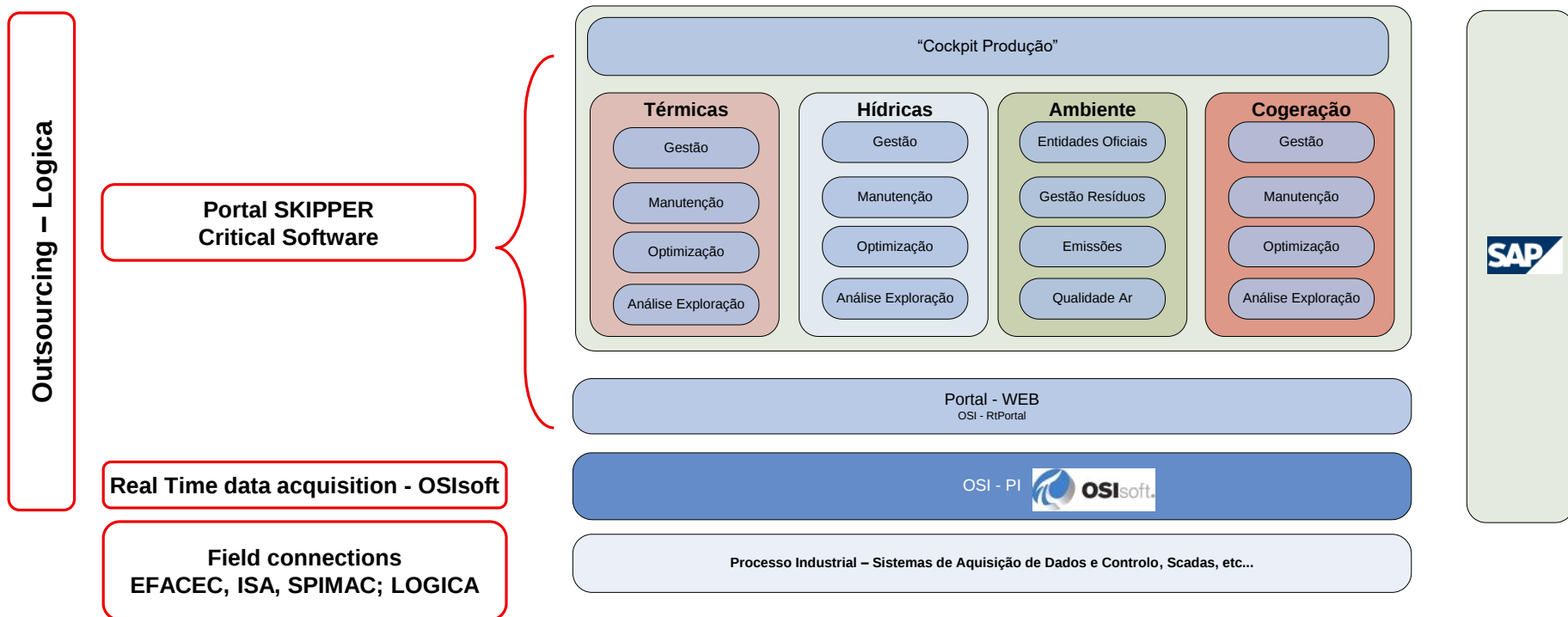


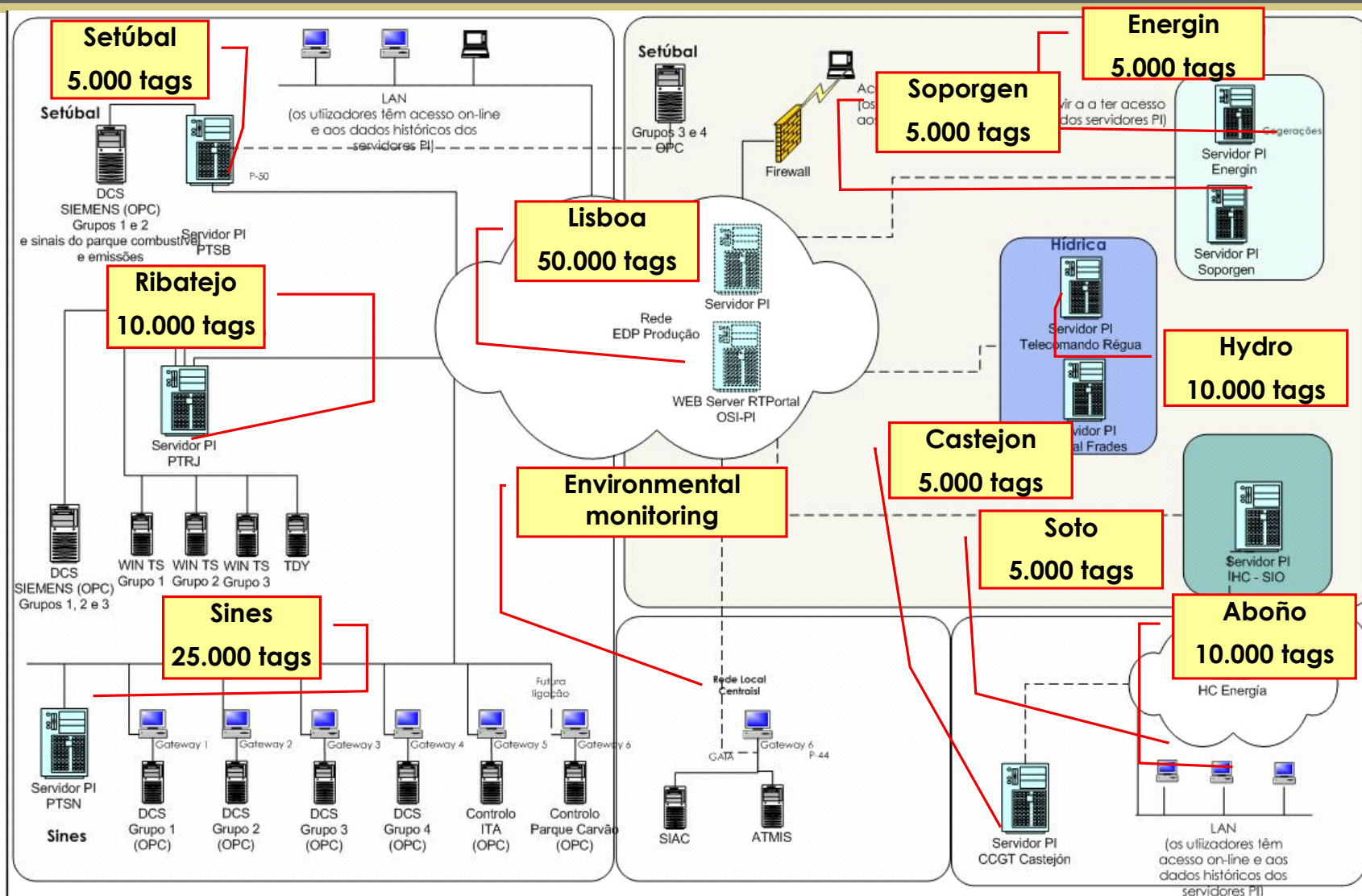
... on budget and on time





SKIPPER: organism in constant evolution, reproduction and growth





Data Centre - Lisbon



Central PI Server

No change: EDPPIPPDAP
IP-Address: (Main): 172.16.208.58
IP-Address: (ILO): 172.16.146.151
Licence: 50,000 BCT
Installed Software:
- PDSMO Interface
- PI-DAP
- PI-ACE
- PI-PI Interface
In all Decentral PI Servers



PI-Link Server

No change: EDPPIPPDAP
IP-Address: (Main): 172.16.208.55
IP-Address: (ILO): 172.16.146.133
Installed Software:
- PI-Link-CEP
- PI-Link Gateway OAP-PI
- PI-Link Gateway ERP



PI-Portal Server

No change: EDPPIPPDAP
IP-Address: (Main): 172.16.208.57
IP-Address: (ILO): 172.16.146.135
Installed Software:
- RPI-Link Business Package



PI-Server Coprolog

No change: EDPPIPPDAP
IP-Address:
Licence: 5,000 BCT
Installed Software:
- PI-DAP



PI-Server Emergin

No change: EDPPIPPDAP
IP-Address:
Licence: 5,000 BCT
Installed Software:
- PI-DAP



PI-Server Flater

No change: EDPPIPPDAP
IP-Address: 172.28.4.182
IP-Address: (ILO): 192.168.160.101
Licence: 5,000 BCT
Installed Software:
- PI-DAP



PI-Server Porto

No change: EDPPIPPDAP
IP-Address: 172.28.50.41
IP-Address: (ILO): 172.17.56.41
Licence: 10,000 BCT
Installed Software:
- PI-DAP



PI-Server Alora

No change: CURTIS
IP-Address:
IP-Address: (ILO): 10.240.80.1
Licence: 10,000 BCT
Installed Software:
- PDSMO
- PI-PI



PI-Server Carilion

No change: BRAYTON
IP-Address: 10.240.80.2
Licence: 5,000 BCT
Installed Software:
- PI-DAP
- PI-PI



PI-Server Carregado

No change: EDPPIPPDAP
IP-Address:
PI-Server ID: 7889
O.L.D. 5000
Licence: 10,000 BCT



PI-Server Cines

No change: EDPPIPPDAP
IP-Address: (Main): 192.168.9.32
IP-Address: (ILO): 192.168.9.51
PI-Server ID: 6448
O.L.D. 20,000
Licence: 20,000 BCT



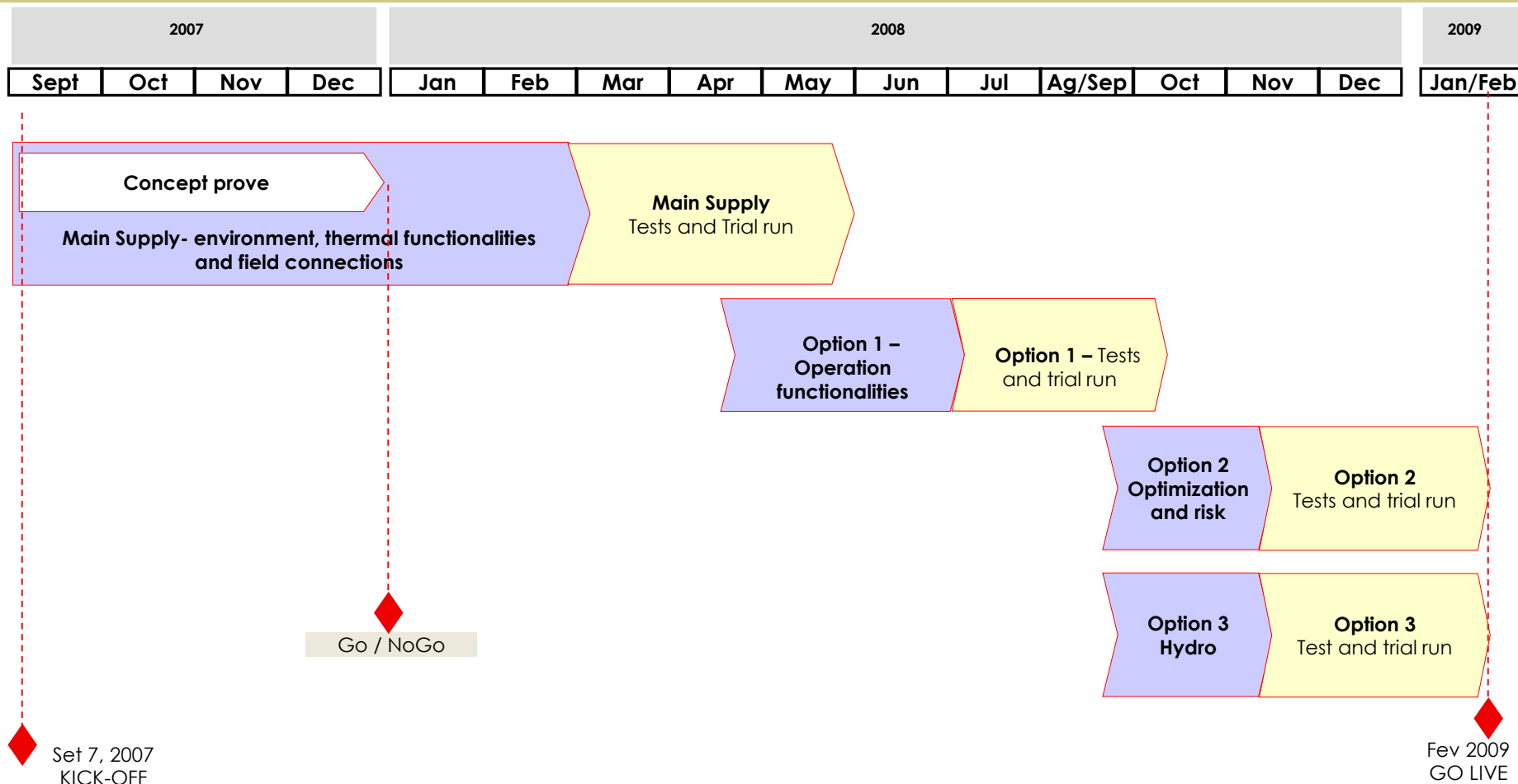
PI-Server Global

No change: EDPPIPPDAP
IP-Address: (Main): 192.168.8.20
IP-Address: (ILO): 192.168.8.20
PI-Server ID: 8290
Licence: 5,000 BCT

Spain

Portal SKIPPER





Bem-vindo, Mário Andrade

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[Pesquisar](#)



[Mudar de utilizador](#)

[Sair](#)

MY SKIPPER

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Ambiente
Ambiente
Environment

Produção
Generation
Generación

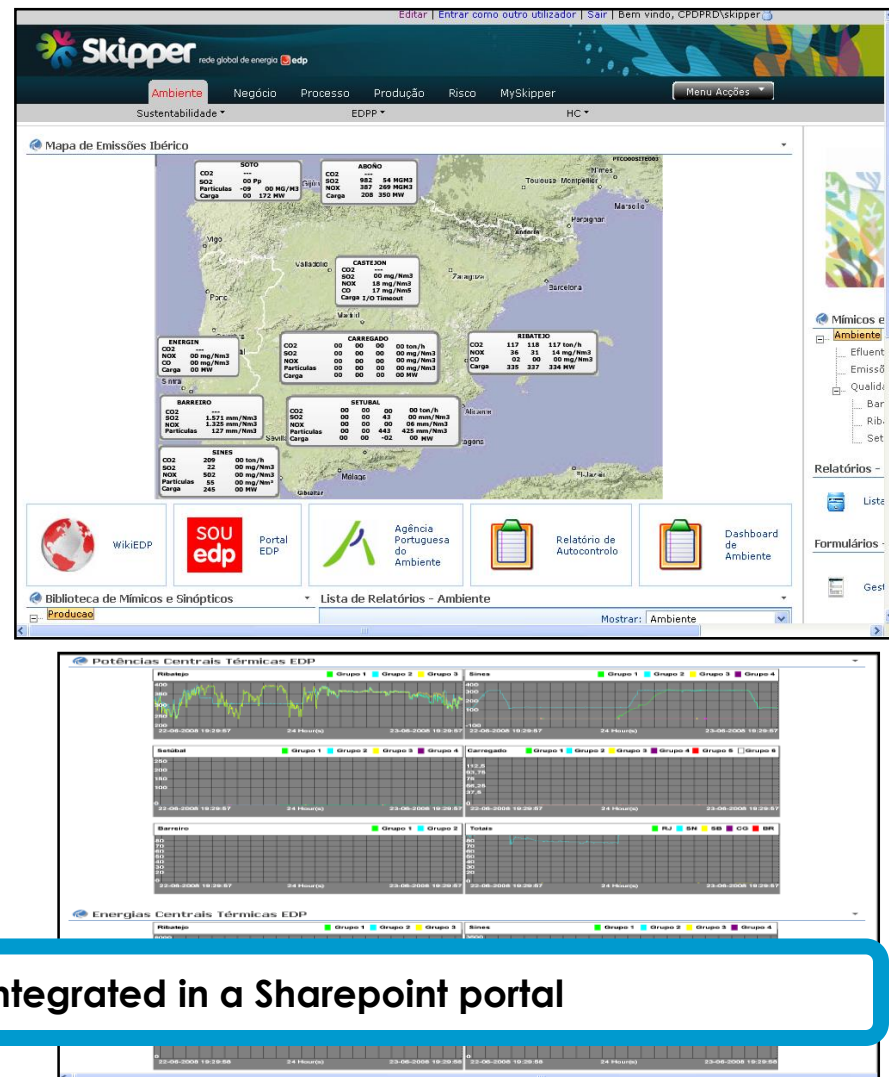
Business
Negócio
Negócio

Riesgo
Risk
Risco

Processo
Process
Processo

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Critical Software, S.A.



Bem-vindo, Mário Andrade

Editar

Pesquisar

Mudar de utilizador

Sair

AMBIENTE

NEGÓCIO

PROCESSO

PRODUÇÃO

RISCO

MY SKIPPER

ACCÕES

> Documentos em Aprovação

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> Gerador de Referências

> Procura

> Criar Relatório

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> Ajuda

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Parametrizações SKIPPER

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Valores Orçamentados

Ambiente

Económico Financeiros

Recursos Produção de Energia

Técnicos de Exploração

Mercado

Risco

Indicadores Carreg. Manual

Pesquisa de Resíduos

FILTROAGEM

Instalação

Código de Resíduo

Selecione

Selecione

Data de Início

Data de Fim

RESULTADOS

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>>

70 Resultados encontrados

Ir para a página

Data	Instalação	Resíduo	Descrição	Quantid.	Unidade	Origem	Destino	Ativação	Operações
18-01-2008 10:31:18	CARREGADO	130110001	Oleos hidráulicos minerais nicleorados	4500	10e6.JJh	Armaazenamento temp. inter	Empr. Armaz. p/ reciclagem	Desactivar	
18-01-2008 10:31:18	CARREGADO	130110001	Oleos hidráulicos minerais nicleorados	4500	10e6.JJh	Armaazenamento temp. inter	Empr. Armaz. p/ reciclagem	Desactivar	
18-01-2008 10:31:18	CARREGADO	130110001	Oleos hidráulicos minerais nicleorados	4500	10e6.JJh	Armaazenamento temp. inter	Empr. Armaz. p/ reciclagem	Desactivar	
18-01-2008 10:31:18	CARREGADO	130110001	Oleos hidráulicos minerais nicleorados	4500	10e6.JJh	Armaazenamento temp. inter	Empr. Armaz. p/ reciclagem	Desactivar	
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18-01-2008 10:31:18	CARREGADO	130110001	Oleos hidráulicos minerais nicleorados	4500	10e6.JJh	Armaazenamento temp. inter	Empr. Armaz. p/ reciclagem	Desactivar	
18-01-2008 10:31:18	CARREGADO	130110001	Oleos hidráulicos minerais nicleorados	4500	10e6.JJh	Armaazenamento temp. inter	Empr. Armaz. p/ reciclagem	Desactivar	
18-01-2008 10:31:18	CARREGADO	130110001	Oleos hidráulicos minerais nicleorados	4500	10e6.JJh	Armaazenamento temp. inter	Empr. Armaz. p/ reciclagem	Desactivar	
18-01-2008 10:31:18	CARREGADO	130110001	Oleos hidráulicos minerais nicleorados	4500	10e6.JJh	Armaazenamento temp. inter	Empr. Armaz. p/ reciclagem	Desactivar	

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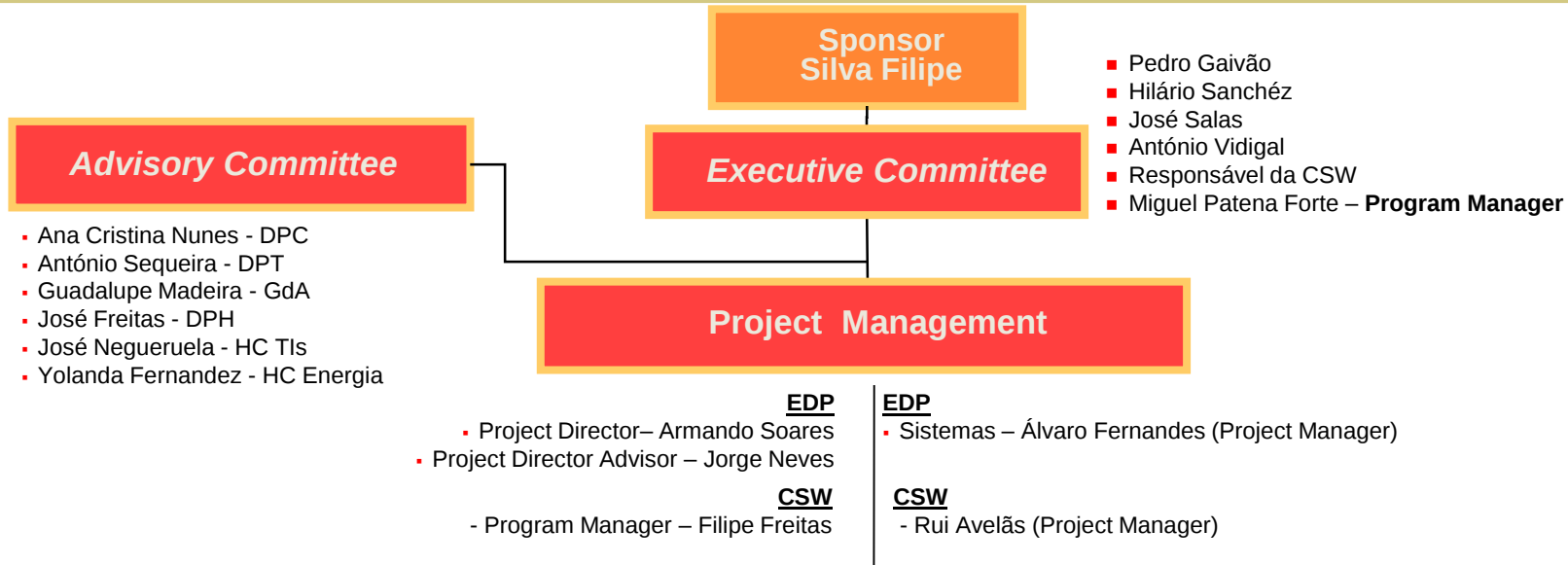
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70 Resultados encontrados

Ir para a página

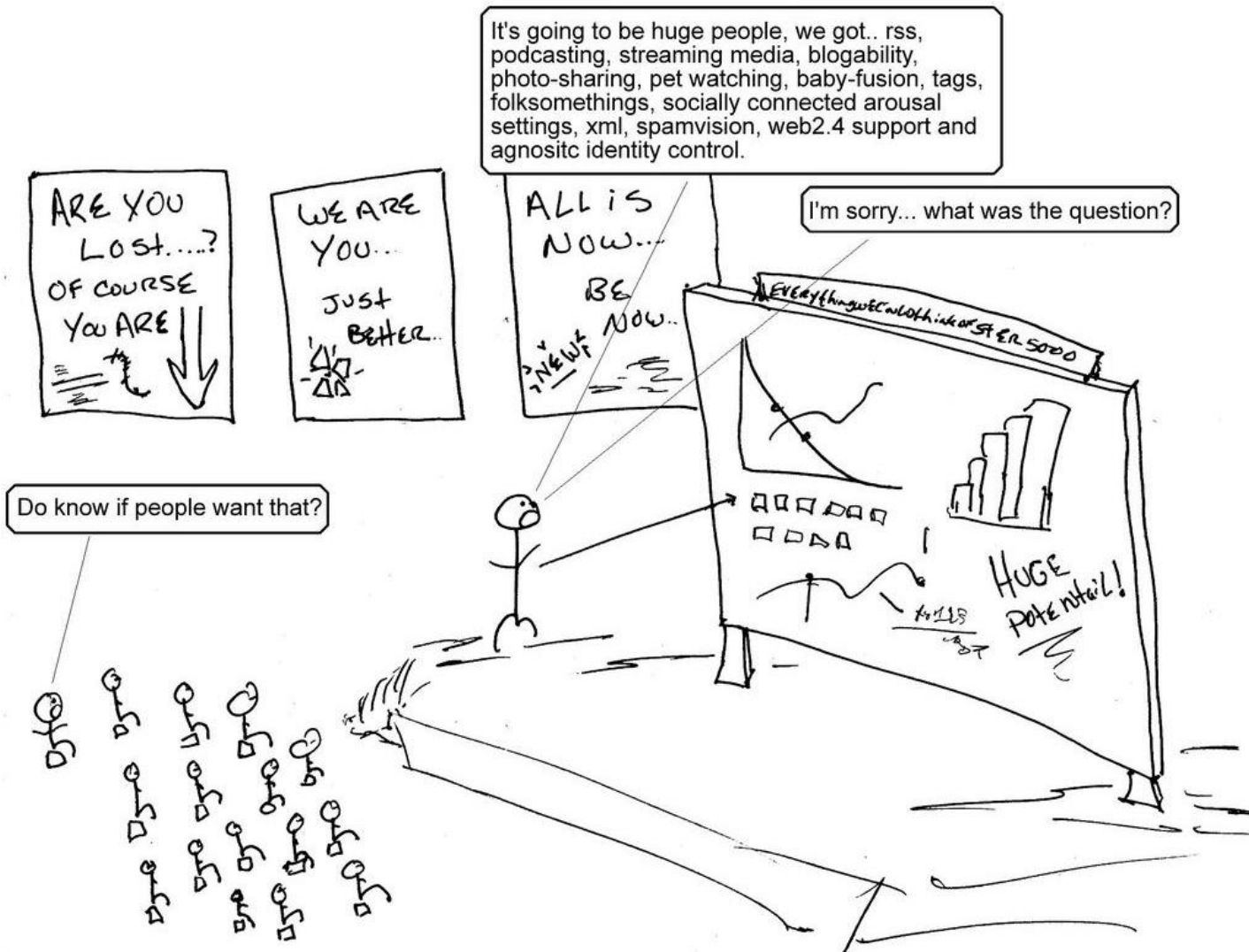
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 [Negócio](#) |
 [Processo](#) |
 [Produção](#) |
 [Risco](#)

Critical Software, S.A.

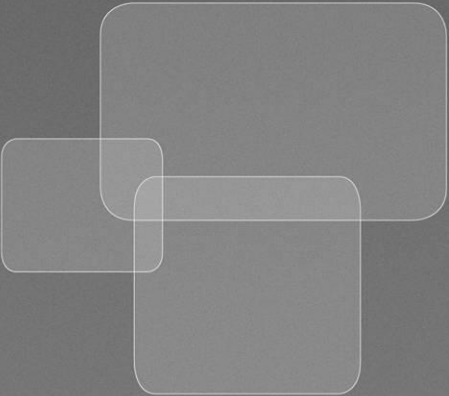
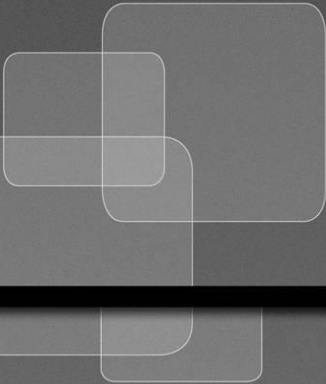
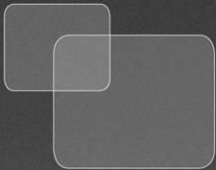


Project Team							
	<u>Business Control</u>	<u>Environment</u>	<u>Management</u>	<u>Process Information</u>	<u>Risk</u>	<u>Infrastructure</u>	<u>Quality</u>
<u>EDPP/HC</u>	▪ Jorge Neves	▪ S. Godinho ▪ B. Alvarez	▪ Jorge Neves ▪ M. Camacho ▪ A. Lobato	▪ C. Cerqueira ▪ J. Vasquez	▪ C. Cerqueira	▪ J. Russo ▪ M. Pio ▪ J. Vasquez	▪ Vítor Hugo ▪ Paes Faria
<u>EDPP/HC TI</u>	▪ C. Gomes ▪ J. Ferreira	▪ C. Gomes	▪ J. Ferreira	▪ C. Gomes	▪ J. Ferreira	▪ V. Vallina ▪ M. Guerreiro ▪ J. Ferreira	▪ J. Ferreira
<u>CSW</u>							





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