





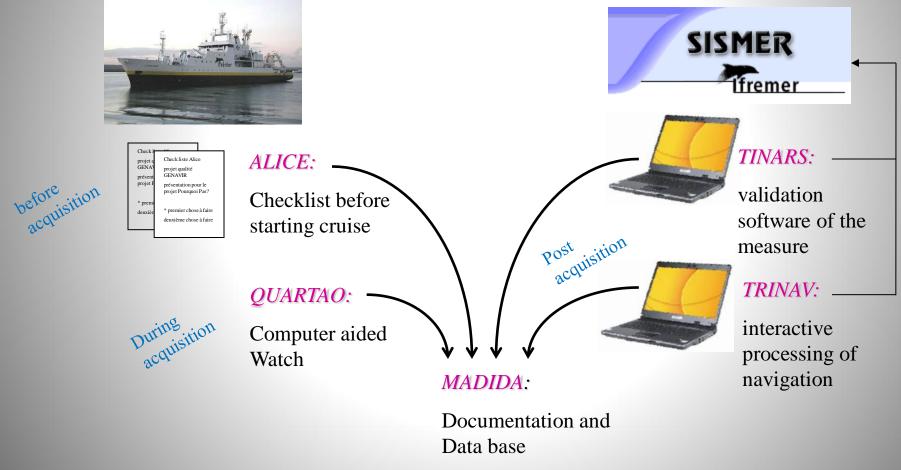


Quality approach at GENAVIR: Data acquisition

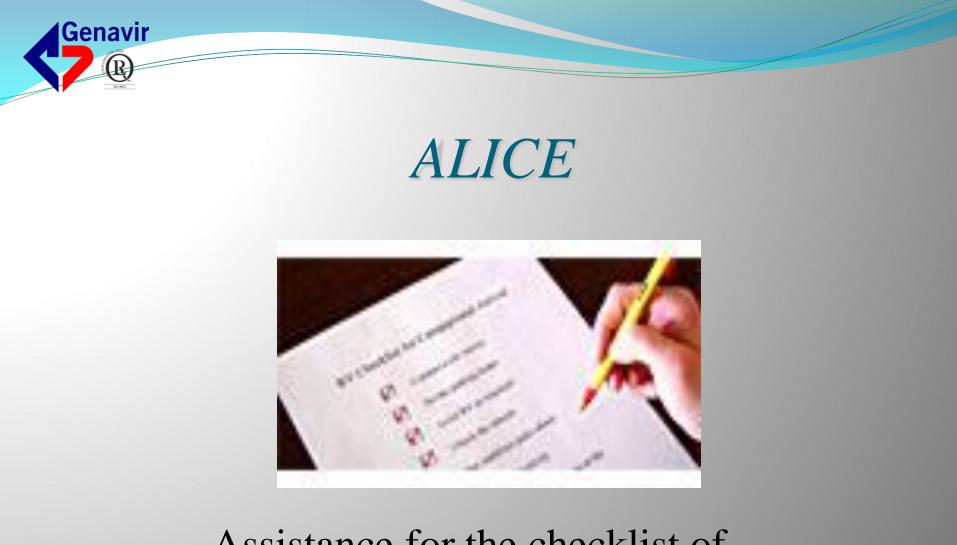
It's a control of the data

from creation ...

... to the data bank



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Assistance for the checklist of equipments



ALICE

Access database specific to each ship

for officers in charge of electronics



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* Consistent checks on the sensors before acquisition On board

Independent control of the operator

* Monitoring controlsCentralizing of controls(MADIDA)





* Propose a list of tests based on sensors selected (tests on the sensors and the links between sensors)

* Saves the validation tests (OK, down, partial)

* Can define a state audit Sensor Scientific and navigation sensor



checklist

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ALICE

check list

example: validation result

Traitements de la mission : 'TrTOUFDF' - MODE : 'DÉBUT MISSION'

Equipements - Actions Etats des équipements

Equipements liés au bateau			Equipements Mobiles			
Categorie	Туре		Modèle	Etat	^	
Informatique	Système d' Acquisition de Mesures		at-termes			
Informatique	Système d' Acquis	pn de	Mesures	at-citep		
Informatique	Système d' Archiv	le		at-archi∨tr		
Informatique	Système de Navig	on Int	égrée	at-cinnap		1
Informatique	Système de Quart	ssisté	e par Ord	at-quartao		1
Informatique	Système de Visua	ation		at-vidosc		
Navigation	GPS différentiel			NR 103		
Navigation	GPS différentiel			NR 203		1
Navigation	Gyrocompas "pas	relle"		SGB 1000		1
Navigation	Gyrocompas "scie	ifique		SGB 1000		1
Navigation	Loch Doppler			TSM 5750		1
Navigation	Loch électromagn	que		CLI 60		
Navigation	Radar bande S (1)	im)		Atlas 8600 ARPA		
Navigation	Radar bande X (3	n)		Atlas 5600 AC/TM		L
Navigation	Sondeur de navig	pn		SKIPPER ED 161 S0kHz		
Scientifique	Attitude : Centrale			1		
Scientifique	Célérimètre de coq	Célérimètre de coque		SVP 10		/
Scientifique	Gravimètre	Gravimètre		BGM 5		{
Scientifique	Gravimètre	Gravimètre		KSS 30		
Scientifique	Heure : Centrale		SOFY M90 EXP 320		1	
Scientifique	Heure : Centrale		VV 4066			
Scientifique	Météo : centrale		BATOS			
Scientifique	Météo : centrale vent		Mors - Suber		1	
Scientifique	Météo : centrale vent		WAD 13		1	
Scientifique	Sondeur multifaisceaux		EM 12 Dual			
Scientifique	Thermomètre Platine Precision			TPP		
Scientifique	Thermomètre Platine Precision			TPP		~
Nombre d'équip	pements listés : 31					

Catégorie :	Informatique	Rechange	Détails							
Type :	Système d' Acquisition de Mesures "scientifique"									
Modèle :	at-termes									
N/S:	S: 524T2163									
Liste des équipements liés associés :										
Categorie	Type	Modèle	Etat							
Informatiqu		MultiSwitch 900								
Informatiqu		•								
Informatiqu		at-archivtr								
Informatiqu		at-cinnap								
Scientifique		BGM 5								
Scientifique		KSS 30								
Scientifique		SOFY M90 EXP 320								
Scientifique	e Heure : Centrale	VV 4066								
Scientifique	e Météo : centrale	BATOS								
Scientifique	e Météo : centrale vent	Mors - Suber								
Scientifique	e Thermomètre Platine Precision	TPP								
Scientifique	e Thermomètre Platine Precision	TPP								
Scientifique	e Thermosalinomètre	SBE 21								
Nombre d'éc	uipements liés : 13									
Catégorie :										
categorie .										
Туре :										
Modèle :										
N/S :		Rechange	Détails							



e Formulaire







Computer aided WATCH

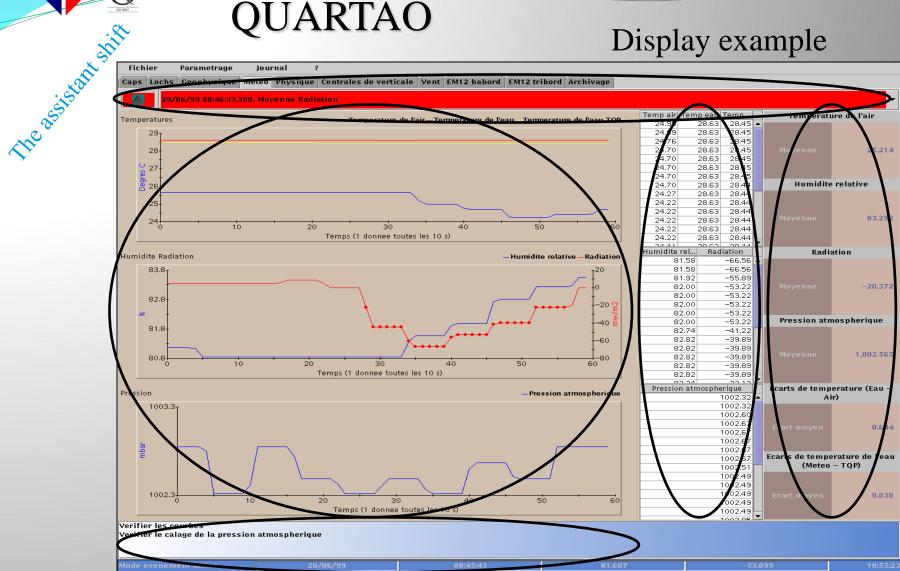




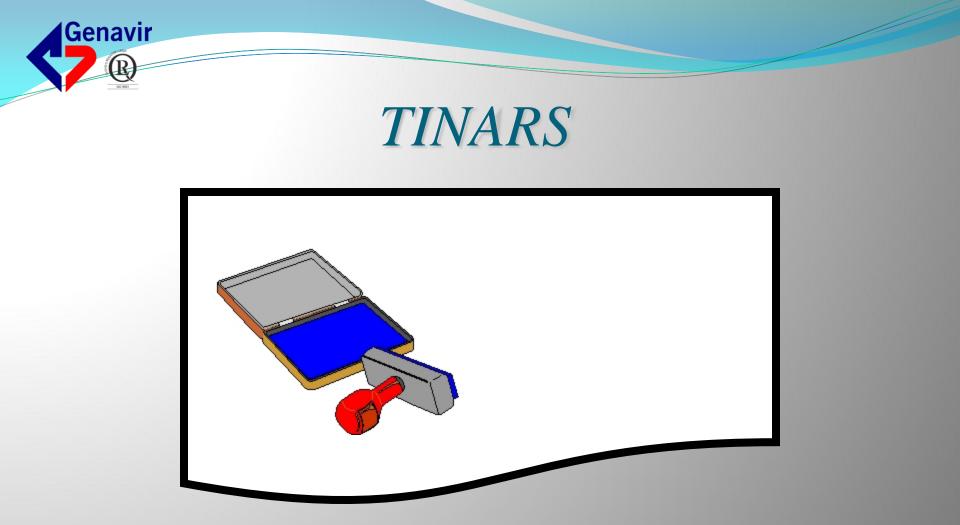


- Centralize and visualize data from sensors relying on information circulating on the network (ex. via TECHSAS)
- Alert users when a problem occurs
- Helping watch people to identify malfunctions
 - Keep track of alarms :logbookonshore processing (MADIDA)
- 2 types of users
 - Technician of the watch : in charge of supervision
 - Electronics Officer : responsible for setting





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Intermediate processing before storage





Objectives

• Technically validate data :

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- Assigning a quality flag
- Publishing a report record
- Correct positioning and timing
- Does not extend to scientific processing:
 - check the calibration, the parameters of acquisition
 - verification of the presence or absence of the measure
 - trivial thresholds on data

0: unskilled 1: good

Final assessment

2: out of statistics

3: doubtful

4: false

9: missing





1st step

• reading data

automatic subscripting

(threshold, equality,

presence, absence)

individually

TINARS Progress

Three processing steps

2nd step

- check rates of acquisition
- check of navigation
- check calculations of computer software acquisition (if possible)
- comparison of cross sectional data

3rd step

Final assessmen

• impact indices

warning

Report review

statistics on indices + comments from the user

TINARS

Sample record : A.D.C.P

Operator's comments about processing

Data file :

Raw file :

- There are several breaks in the time passes midnight . The day passes to the next day at 23h59'57" .
- The amplitude of the beam 2 is slightly lower than that of other beams . This did not affect the range .

Step 3

Statistics - file 002

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Indice	0	1	2	3	4	9
Vel1:	0,00%	71,61%	0,00%	0,00%	0,00%	28,39%
Vel2 :	0,00%	72,95%	0,00%	0,00%	0,00%	27,05%
Vel3 :	0,00%	72,47%	0,00%	0,00%	0,00%	27,53%
Vel4:	0,00%	70,90%	0,00%	0,00%	0,00%	29,10%





MADIDA

Documentation and Data Base on sensors, acquisition conditions...

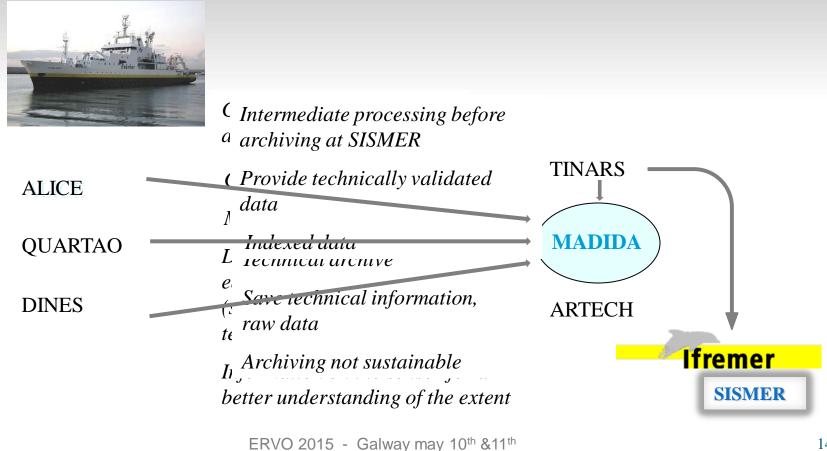
https://www.genavir.fr/madida

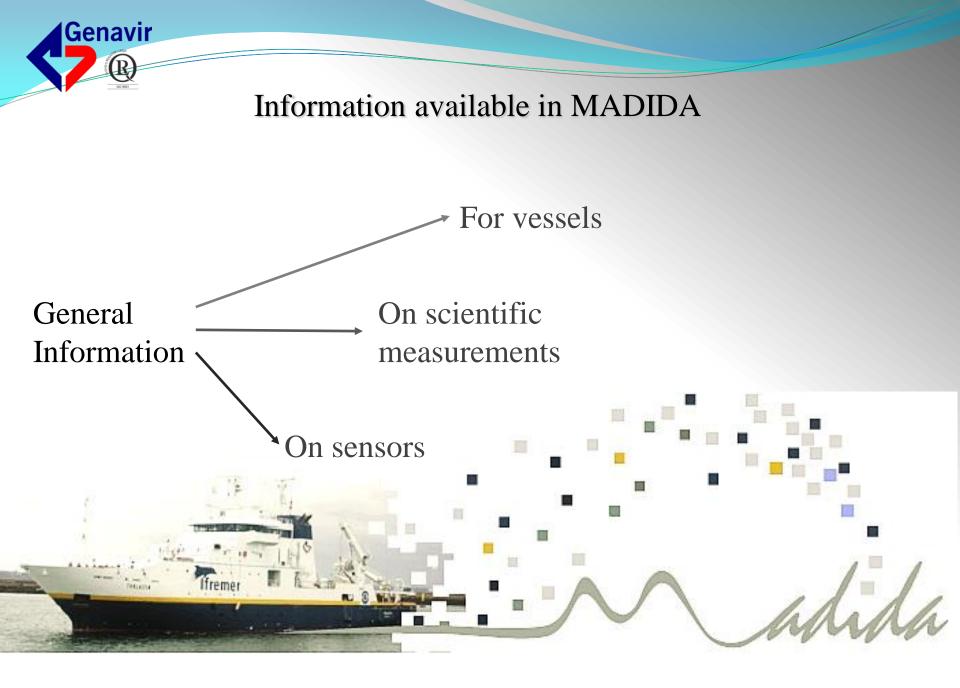


It is a verification of the data

since its creation ...

... to its archiving







https://www.genavir.fr/madida



Thank you

https://www.genavir.fr/madida