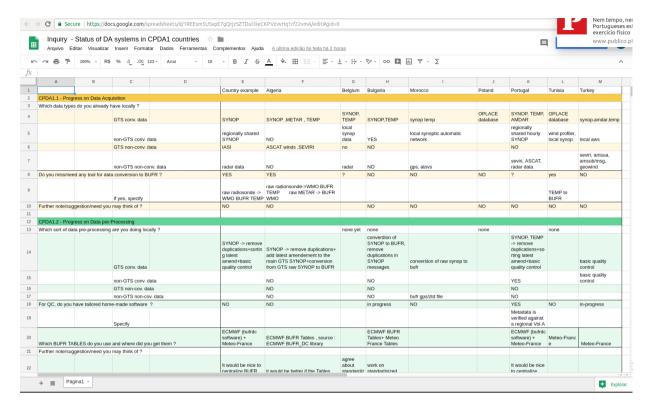


# Progress on the CORE programme on DA



## On the Inquiry



## **STATUS**

8/8 countries (all the DAsKIT), have answered to the inquiry

closed in 01 March 2018

## **ALADIN-HIRLAM WP2018**

CPDA1.1 – Progress on Data Acquisition

CPDA1.2 - Progress on Data pre-Processing

CPDA1.3 - Progress on Implementation and Validation of BATOR

CPDA1.4 - Setup of Observations Monitoring

CPDA1.5 - Setup of a Cycling System

























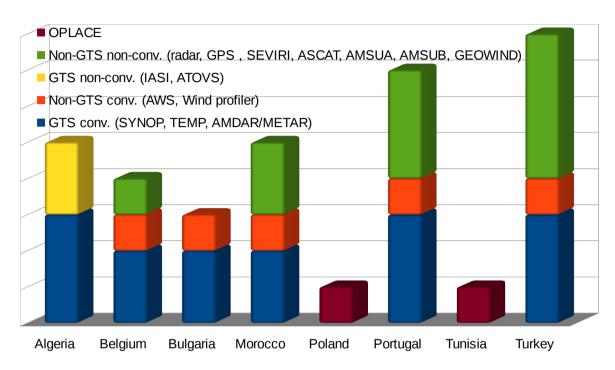








# **Progress on Data Acquisition**



## **STATUS**

8/8 countries have conventional data available

7/8 countries have non-conventional data available (Bulgaria not)

availability: IT depart.; GTS; EUMETCast; or from OPLACE (Poland, Tunisia)

## CONVENTIONAL

SYNOP, TEMP, AMDAR, METAR from GTS + SYNOP from local/regional networks (AWS) and wind profiler (Tunisia). NEEDS (conventional data): convert raw radiosonde to WMO BUFR TEMP (Algeria and Tunisia) and raw METAR to WMO BUFR METAR (Algeria); 2/8 is already converting raw SYNOP to WMO BUFR SYNOP (Algeria, Morocco)

## NON-CONVENTIONAL

GTS > IASI, ATOVS, ASCAT winds (Algeria), SEVIRI (Algeria); non-GTS > radar, GPS, ATOVS, SEVIRI, ASCAT, AMSUA, AMSUB, MSG, GEOWIND. No needs identified so far























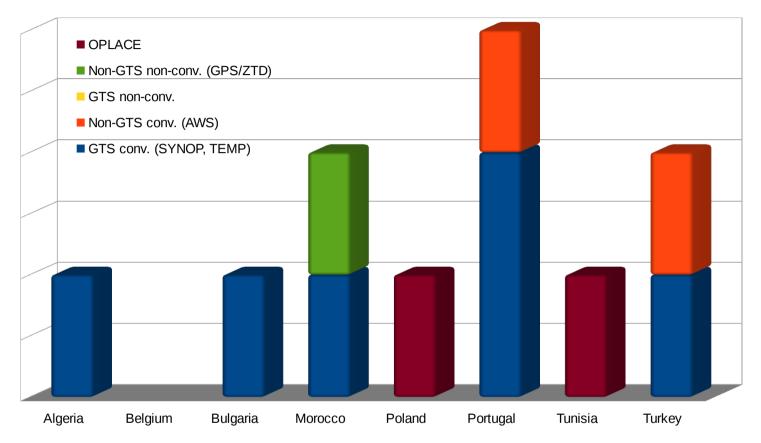






# ALADIN

# **Progress on Data pre-Processing**



## **STATUS**

5/8 countries have some preprocessing know-how

2/8 get data from OPLACE

1/8 did not started any preprocessing activity

## **NEEDS**

BUFR TABLES are picked up from ECMWF and Météo-France basically; and it was pointed out that those tables' format should be standardized (and centralized)























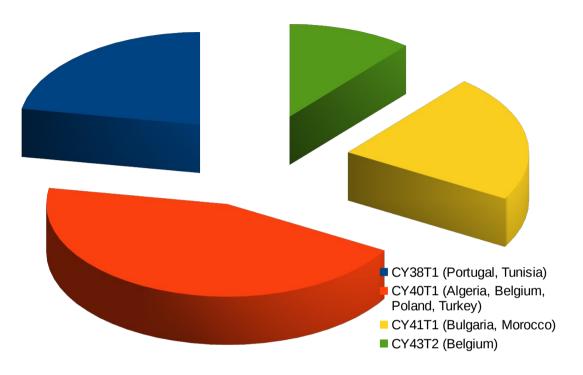






# ALADIN

## **Progress on Implementation and Validation of BATOR**



## **STATUS**

8/8 countries have implemented BATOR

4/8 have CY40T1

2/8 have CY41T1

2/8 still have CY38T1

1/8 is simultaneously testing CY43T2 (Belgium)

data types: SYNOP, TEMP and AMDAR

### **BLACKLIST**

8/8 countries use export version blacklist file

## **BACK-PHASING**

(at least) 3/8 countries got know-how to back-phase BATOR

#### **NEEDS**

back-phase BATOR in order to process METAR (Algeria)

























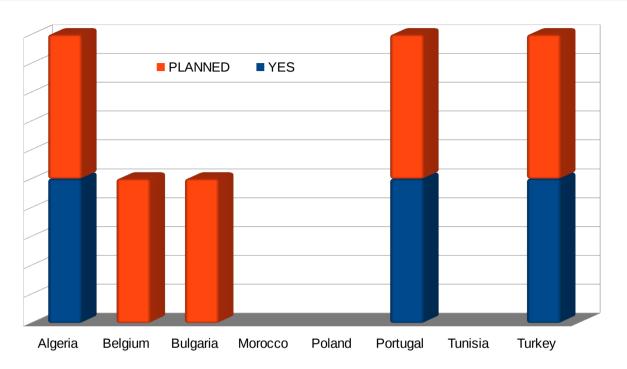








# Setup of Observations Monitoring



**STATUS** 

3/8 countries do some sort of DM

5/8 countries do not have it

## **PLANS**

1/8 did not reply

1/8 plan to use odbsql

1/8 plans to use MANDALAY

1/8 plan to test SAPP

3/8 do not have any future plan

























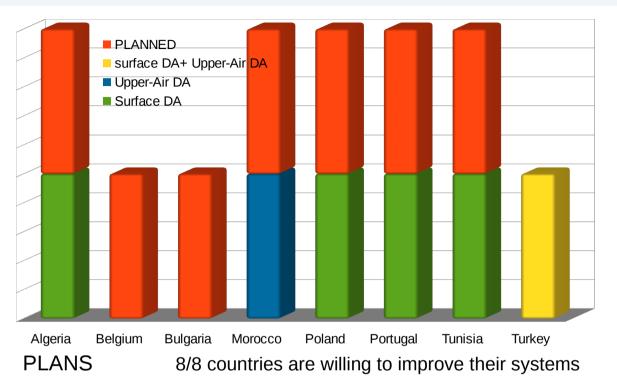








# Setup of a Cycling System



**STATUS** 

2/8 do not have

6/8 countries have a DA cycling

4/6 countries have a surface DA cycling (using CANARI)

1/6 have an upper-air DA cycling (using 3D-Var)

1/6 have a surface+upper-air DA cycling

7/8 wish to have a full combination of OI\_MAIN (CANARI) + 3D-Var.

TUNNING 5/8 countries have a first B-Matrix (Turkey has used NMC method);

0/8 did any tunning on their local systems;

VERIFICATION 4/6 countries have used local surface verification tools to validate their systems

1/6 has used HARP (Poland)

1/6 uses HARMONIE verification tool. NEEDS (verification): for upper-air verification tool.



































## Conclusions, open questions and future actions

## CONCLUSIONS

All countries have available data to be assimilated in their local DA systems Know-how to process conventional data using ALADIN system already exists in all countries

Some countries already setup a DA cycling and there is a trend/common wish to invest on surface DA in this moment

Data Monitoring and validation tools know-how are missing

## **OPEN QUESTIONS**

Is it opportune to think now in one single Data Monitoring tool, since HIRLAM plans to upgrade obsmon and LACE has somehow frozen its DM tool?

Can SAPP (ECMWF) become a common observations (...) monitoring tool, if support for local operations will be provided (since more and more countries are testing it), at which distance?

Which verification tool to adopt for local validation DA systems?

## SHORT-TERM ACTIONS

Establish regular video-conf. with DasKIT countries 2018 DAsKIT WD, Lisbon, week 17-21 September 2018





























