A web portal for broadcasting services

eBCD 2.0
Broadcasting Online

Andrea Manara

International Telecommunication Union

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Organised by:

Agenda

- Portal overview
- The tools

eQry ePub

eTools myAdmin

- Future directions
- Hands-on exercises

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Overview

Objectives

- Provide access to up-to-date broadcasting data and services
- Be closer to administrations with added-value services.
- Assist administrations in following plan modification procedures and related deadlines.
- Reduce workload on both BR and administrations
- Use rich and secure web2.0 technologies

[Portal description](#)

Overview

myAdmin	"My own office @ ITU: opening ~24/7"	BR DB — Daily copy
eTools	"My test calculations on-demand"	BR DB — Weekly copy
ePub	"Special Sections, the publication day!"	BR DB — Snapshot
eQry	"Fast search on Plans and MIFR"	BR DB — Daily copy

eBCD 2.0 Broadcasting Online

Overview

eTools
ePub
eQry

TIES users

myAdmin

TIES users
BCD authorization required

Tips:
•Check yourTIESaccount@itu.int
for eBCD 2.0 e-communications

eBCD 2.0
Broadcasting Online

Overview

eBCD daily stats

Number of daily user logins 2014

Users Statistics
- Region 1
- Region 2
- Region 3

14.37 %
14.37 %
71.26 %

1264 Users

Member States Statistics
- Region 1
- Region 2
- Region 3

7.12 %
14.48 %
78.40 %
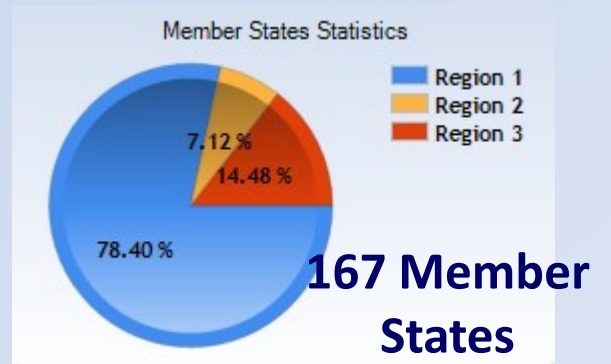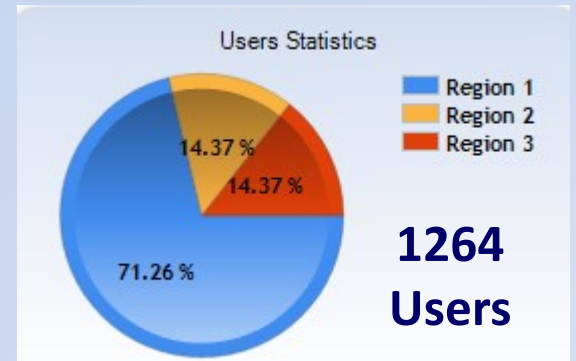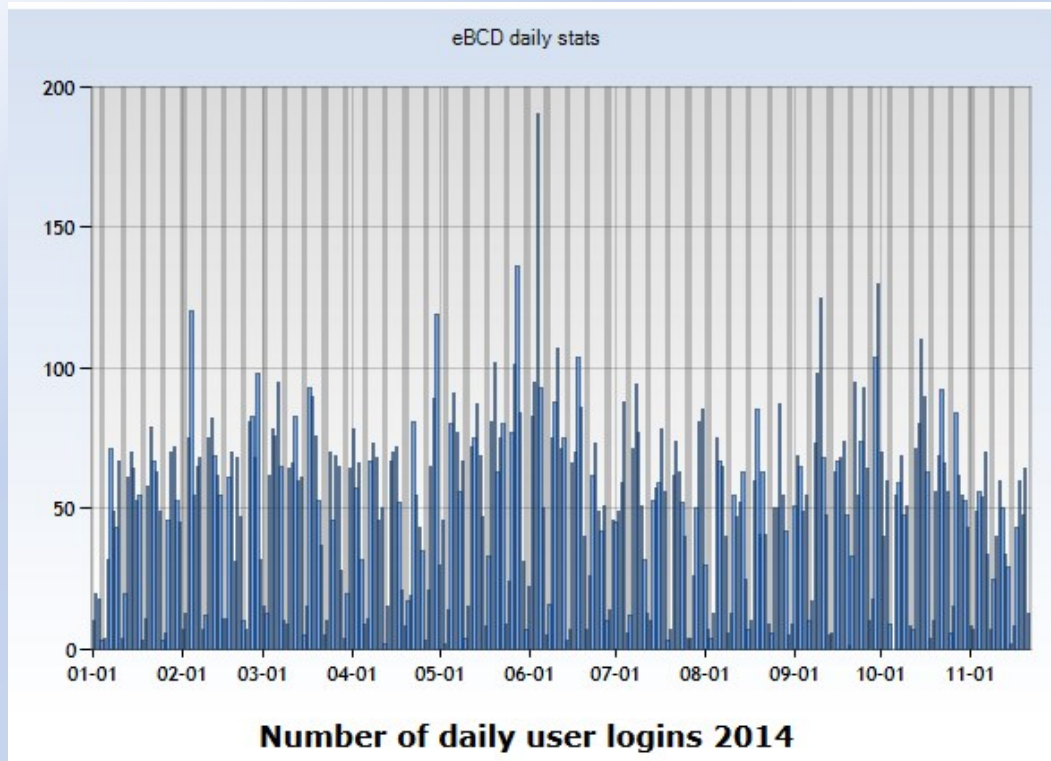
167 Member States

Overview

Region 1
991 Users
119 Member States

AFS (9)	AZE (10)	BOT (6)
AGL (4)	BDI (5)	BUL (12)
ALB (5)	BEL (7)	CME (18)
ALG (35)	BEN (11)	COD (12)
ARM (8)	BFA (4)	COG (5)
ARS (6)	BHR (6)	CTI (12)
AUT (10)	BLR (5)	CZE (6)

. . .
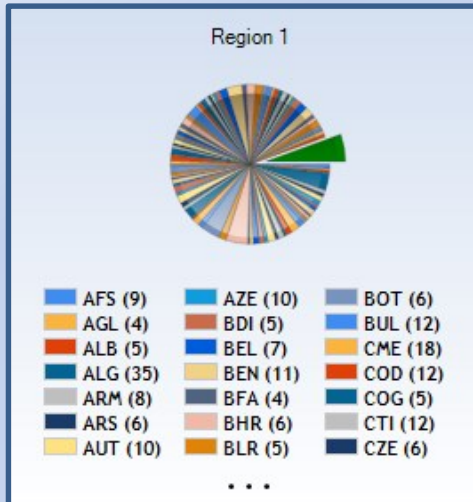
Region 2
90 Users
24 Member States

ARG (6)	CTR (2)	JMC (1)
B (15)	CUB (2)	MEX (3)
BLZ (1)	DOM (1)	PRG (5)
BOL (1)	EQA (3)	PRU (1)
BRB (1)	GRD (1)	SUR (5)
CAN (8)	GTM (1)	URG (2)
CHL (3)	GUY (1)	USA (15)
CLM (8)	HTI (2)	VEN (2)
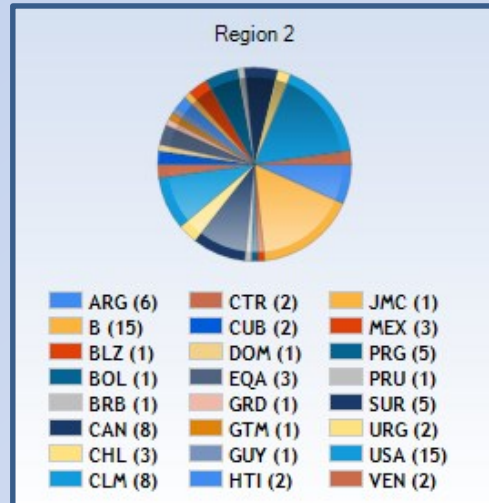
Region 3
183 Users
24 Member States

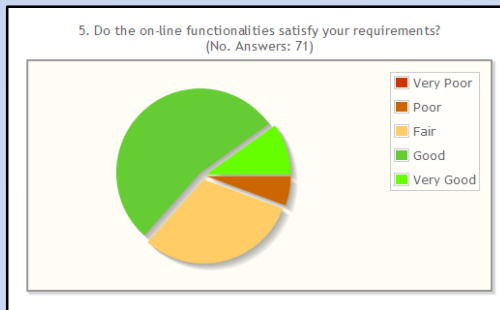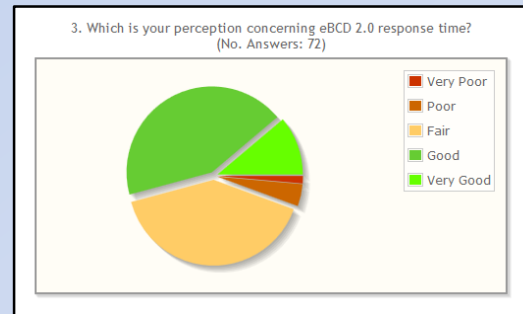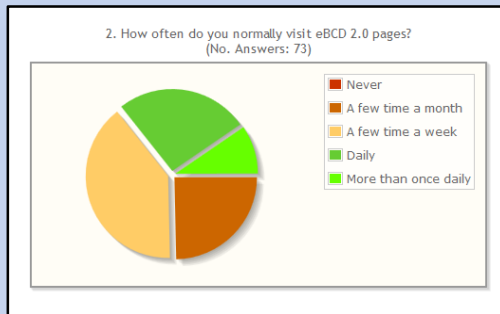|		
AFG (1)	IND (8)	NPL (2)
AUS (4)	INS (12)	NZL (3)
BGD (2)	IRN (24)	PAK (7)
BRM (2)	J (34)	PHL (2)
BRU (2)	KOR (9)	PNG (4)
BTN (1)	LAO (4)	SNG (3)
CHN (26)	MLA (13)	THA (7)
FJI (1)	MLD (1)	VTN (11)
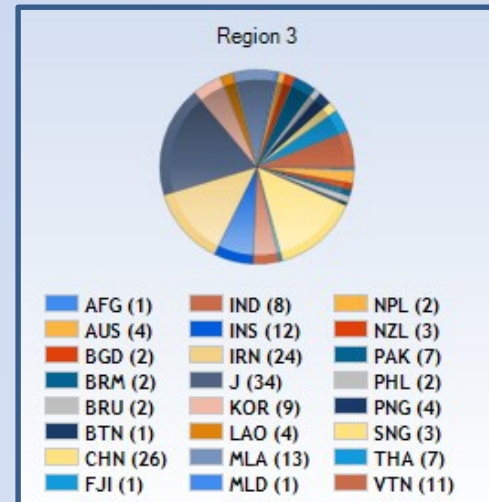
2014 Survey

- 15 January - 1 March 2014
- 73 users from 22 Member States
- 30% replies (240 users consulted eBCD 2.0 in that period)
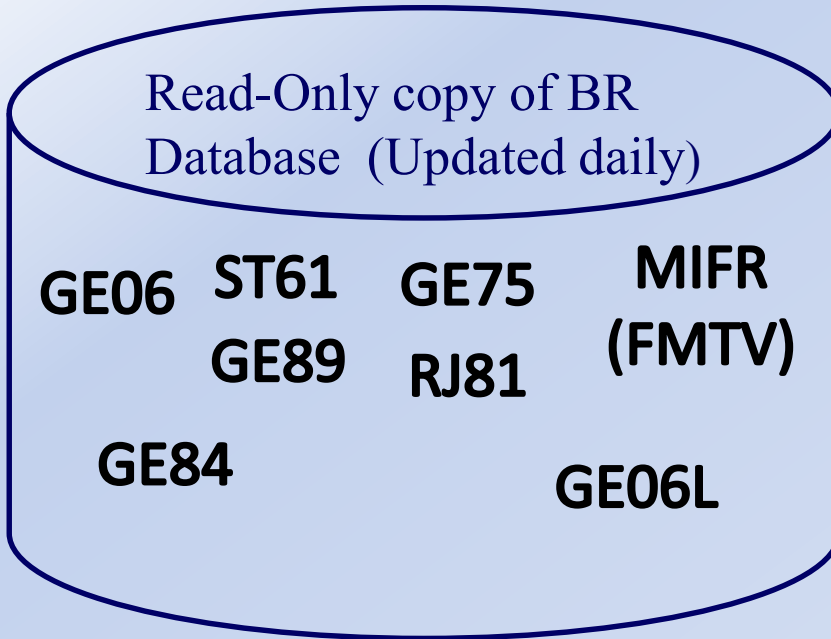- New requested functionalities evaluated and partly already implemented (see Survey results)

2. How often do you normally visit eBCD 2.0 pages?
(No. Answers: 73)
- Never
- A few time a month
- A few time a week
- Daily
- More than once daily

3. Which is your perception concerning eBCD 2.0 response time?
(No. Answers: 72)
- Very Poor
- Poor
- Fair
- Good
- Very Good

5. Do the on-line functionalities satisfy your requirements?
(No. Answers: 71)
- Very Poor
- Poor
- Fair
- Good
- Very Good

6. Are the lay-out and presentation of the functionalities clear and easy to use?
(No. Answers: 71)
- Very Poor
- Poor
- Fair
- Good
- Very Good

eQry

"Online search on Plans and MIFR"

Read-Only copy of BR Database (Updated daily)

GE06 ST61 GE75 MIFR (FMTV)
GE89 RJ81
GE84 GE06L

Search by:

- Administration
- Geographic Area
- Frequency
- Administration Unique Identifier
- BR Identification number
- Status (Recorded/Published)
- Site/Allotment name

Contour ID, Plan Entry, Assignment code, TV chan., Frequency block

NEW

- More selection criteria for GE06
- Generate e-notice file (Export to SGML), not yet GE06D and LF/MF

Notice generation via TerRaNotices

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"Special Sections, the publication day!"

ePub

Database Snapshots
at publication date

GE06   ST61   GE75   MIFR (FMTV)
GE89   RJ81
GE84   GE06L

Search by:

- BR IFIC number
- Administration
  - My notifications
  - Notifications which affects me

"On-demand test calculations"

eTools

GE06

- **GE06D** Plan Modification
- (Coordination/Conformity)
- **GE06A** Coordination exam.
- **GE06D** Compatibility
- **GE06D** Compatibility (ATU)
- **GE06D** Compatibility (ASMG)

Propagation

- ITU-R P1812 Point to Point
- ITU-R P1812 Point to Area
- ITU-R P1546 Point to Area NEW

RJ81 NEW

- Plan Modification
- What-if studies

Notice Generation NEW

- Notice Generation
  (Export to SGML output)

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eTools: e-notice submission

GE06 and RJ81

eTools

Validate e-notice files

- Please use BR dedicated software tools for validations!

Upload e-notices

- One file per administration on the same submission

Complete submission

The ITU distributed processing infrastructure will treat your test submission and inform you at completion!

Check your TIES account!

yourTIESname@ties.itu.int

eTools: job processing

Test Packages: click to hide all

Job Id	Job Name	Job Status	Job Type	Date of Request	Date of Start Run	Date of Completion	Process	Elapsed Time (minutes)
6167	degert_0	Success	Art4_PlanModification	11/12/2012 3:10:52 PM	11/12/2012 3:11:02 PM	11/12/2012 3:11:59 PM	BR-GE06-2_2	1
14157	test	Success	Art4_PlanModification	11/20/2014 4:55:08 PM	11/20/2014 4:55:09 PM	11/20/2014 4:56:42 PM	CALC1_46	2
14145	manara_0	Failed	Art4_PlanModification	11/19/2014 3:21:33 PM	11/19/2014 3:21:38 PM	11/19/2014 3:22:13 PM	CALC1_22	1

Test Packages 10717: click to show all

Job summary   Delete   Share

job id	job name	job status
10717	MOZ-Nairobi	Failed

Job Input

Adm	E-notice file	Number of Notices
MOZ	MOZ_19 07 2013.txt	179

Job Output: ERROR

```
Problem parsing notices:
target not found for TB5 notice where t_adm_ref_id = MOZ1305361
target not found for TB5 notice where t_adm_ref_id = MOZ1305364
```

Please contact brbcd@itu.int
if the error message is unclear

The Online Validation service would be soon
integrated to provide clearer error messages

eTools: privacy & job sharing

Jobs (e-notice and results) are owned and visible ONLY by submitter.

Facilitate coordination!

...you can now share them with other eBCD registered users!

eTools: back-end infrastructure

- 28 independent processes currently available in ITU servers for calculations.
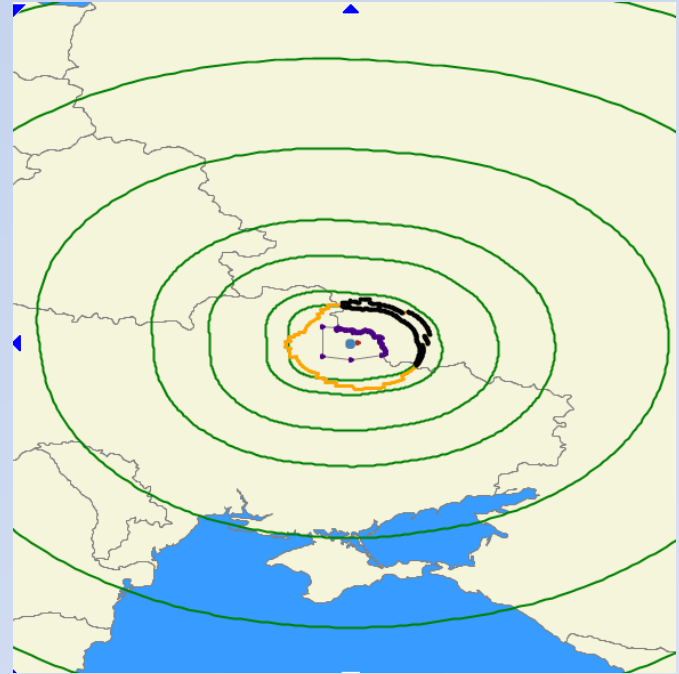
NEW Processes distributed in such a way to minimize waiting time.

The BR completed a pilot-project to integrate external cloud resources if needed

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GE06D Plan Modification

Coordination examination

Conformity examination

Compatibility Analyses

Interference calculations between new notices (from electronic notification files) and existing plan notices and recorded assignments/allotments

Job summary   Delete   Share

job id	job name	job status
14168	test	Success

Job Input

Adm	E-notice file	Number of Notices
LBN	LBN_12846_IN_all.txt	122

Job Output

Results available for one-month only!

Results is an MS Access mdb file for download to be visualized with GE06Calc.

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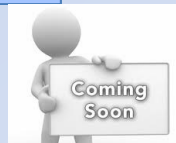
RJ81 Art. 4 what-if studies

ITU-R P1812 calculations

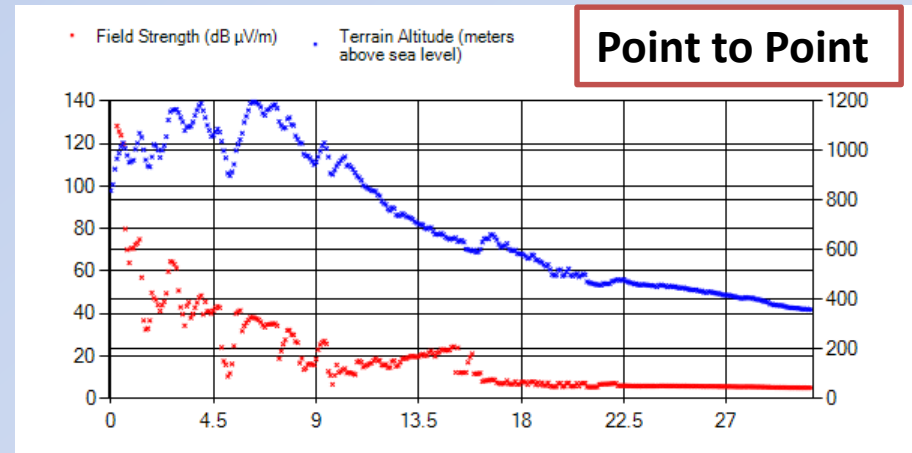Propagation prediction model using terrain profile

- ➢ 30 MHz -3 GHz
- ➢ 0.25 km – 3000 km
- ➢ 1% < time < 50%
- ➢ 1% < locations < 99%

SRTM3 terrain database
3 arc-sec resolution (90 m)

still P1812-1

P1812-3(09-13)

Point to Point

Field Strength (dB μV/m)   Terrain Altitude (meters above sea level)

Point to Area

testTX

Coming Soon

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ITU-R P1546 calculations

Propagation prediction model

➢ 30 MHz -3 GHz
➢ 1 km – 3000 km
➢ 1% < time < 50%
➢ 50% locations

Terrain database can be used to improve accuracy

Could also be adapted for location probabilities in the range (1%- 99%)

NEW

Beta Release!

Point-to-area prediction of field strength for the broadcasting, land mobile, maritime mobile and certain fixed services (e.g. those employing point-to-multipoint systems)
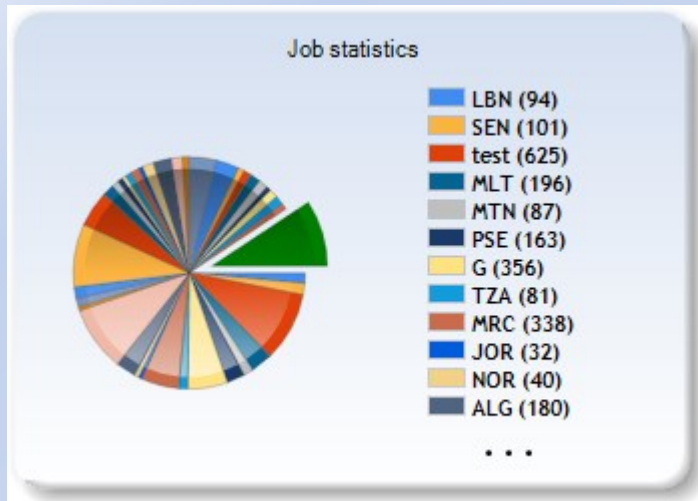
eTools usage

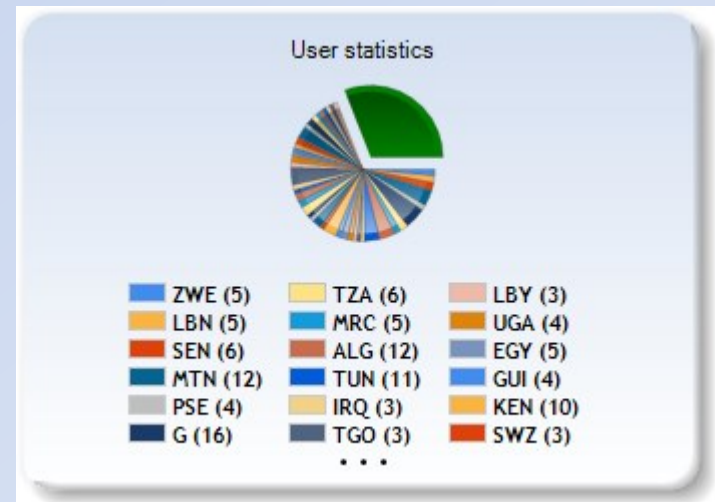| Calculation Type	# Jobs
GE06D Plan Modification (Coordination/Conformity)	3555
GE06D Compatibility	2198
GE06D Compatibility (ATU)	1372
GE06D Compatibility (ASMG)	429
GE06A Coordination	296
ITU-R P1812 Point2Point	260
ITU-R P1812 Point2Area	146
RJ81 Plan modification	98
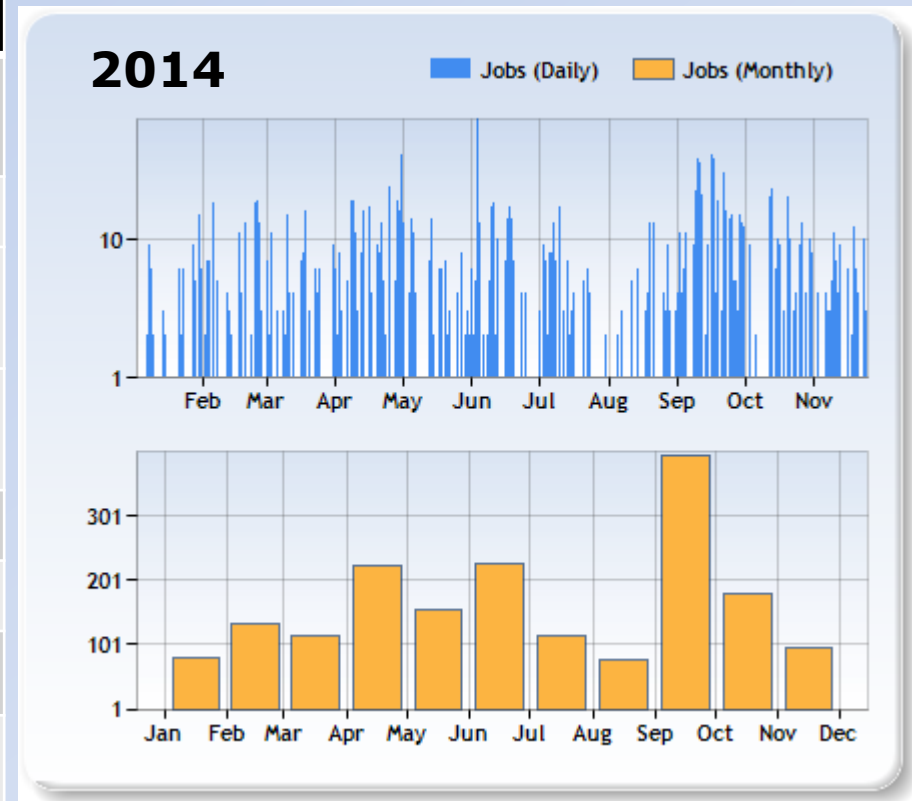
eTools usage

118 Member States

377 Users

myAdmin

My Mailbox

Communication between the BR and the Member State:
- GE06D notices not yet published (for specific cases)
  - notices under Conformity Review (30 days)
  - notices in the Waiting Review
- GE06D notices to be deleted in 30 days (in coordination since 2 years and 75 days)

Latest Special Sections containing my notifications	Latest Special Sections affecting my administration

myAdmin

My Plan Statistics

Plan notices and assignments submitted by my Administration

Plan notices in coordination which affect my Administration

Notices under treatment ready for Part B   NEW

Coordination given/received by my Administration in the last 30 days

My MIFR Statistics

MIFR assignments and notices (part 1, 2, 2B, 3) submitted by my Administration

myAdmin

My Profile: service subscription

Send me an E-mail when new Special Sections containing my notifications or notifications affecting me are available on the web

Send me an E-mail when Coordination/Objection for my notices enters the database

Future directions

- Add services in **eTools**
  - Assist administrations the planning of VHF-FM sound broadcasting services in accordance with the GE84 Agreement (GE84PLN evolution)
  - Implement Survey-requested functionalities

- Add services in **myAdmin**

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Future directions

- Please send us your eFeedback!
  - How can we improve our services?
  - What do you need?

- Please answer the [online survey](#) and help us improve

"Thanks for your attention!"

Hands-on Exercise

Exercise no.1 eQry	Exercise no.2 ePub
1. Set selection criteria for plans/MIFR published notices or recorded assignments	1. Consult data concerning Special Sections of a plan of your choice
	a. Browse affected/notifying administrations
	b. Browse through summary information and notice/assignment details
2. Retrieve the data	
	2. Select a BR Ific of choice
3. Browse through summary information and notice/assignment details	a. View published Special Sections if any
	b. View MIFR (FMTV) records if any
4. Export the information to Excel	
	3. Select your Administration
5. View the data in Google Earth.	a. For the Plan of your choice, find the Special Sections which included your modifications or notifications affecting your administrations

Hands-on Exercise

Exercise no.3   eTools

1. Read the Disclaimer to make sure you understand scope and limitations of the tool
2. Submit a job by uploading one or more notice files for a test calculations of your choice
3. Display the results when the calculation completes (you may want to check your ties account, you may also want to set a forwarding rule to your normal office e-mail account)
4. Share the job with one or more of your neighbors. Verify that he can access your test data.
5. Delete a job if you are not more interested in it.

Exercise no.4   myAdmin

1. Log-in. If this is the first time a request for authorization will be sent to the BR. Verify your TIES account for communications concerning your granted access to this tool.
2. Verify your Mail Box. Is there any message from the BR?
3. Browse through your Plan Statistics.
    a. Look at your notices under treatment. Are there any objection or missing coordination?
    b. If so you may discuss one notification with colleagues from concerned Member States.
        i. In case of GE06 plan, look together at coordination contours.
        ii. You may want to submit via eTool P1812 calculations which may help to give you a more precise view of the situation considering terrain data.
    c. Look at notices under treatment which affect you.
        i. Did you compete the coordination for all those notices?
4. Browse through your MIFR statistics
    a. Do you have notices published in Part 1, 2, 2B or C?