NATIONAL SPECTRUM MANAGEMENT ASSISTANCE WORKSHOP

23 to 24 July 2018, Accra, Ghana









Introduction

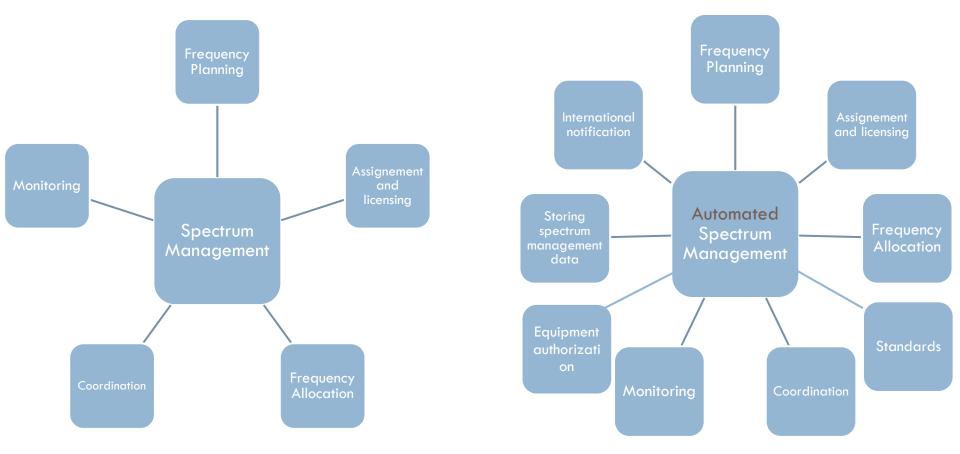
Statement from ITU Handbook on National Spectrum Management

"National spectrum management must ensure that adequate spectrum is provided over the short term and the long term for public service organizations... for private business telecommunications, ...

In order to meet these objectives, the spectrum management system must provide an orderly method for allocating and assigning frequency bands, authorizing and recording frequency assignments and establishing regulations and standards."

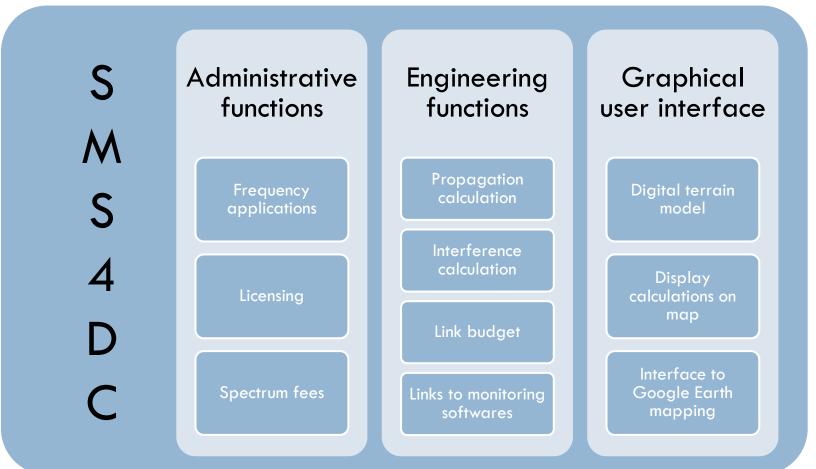
Automation for spectrum management activities

Increasing spectrum management activities



Automation for spectrum management activities

□ SMS4DC





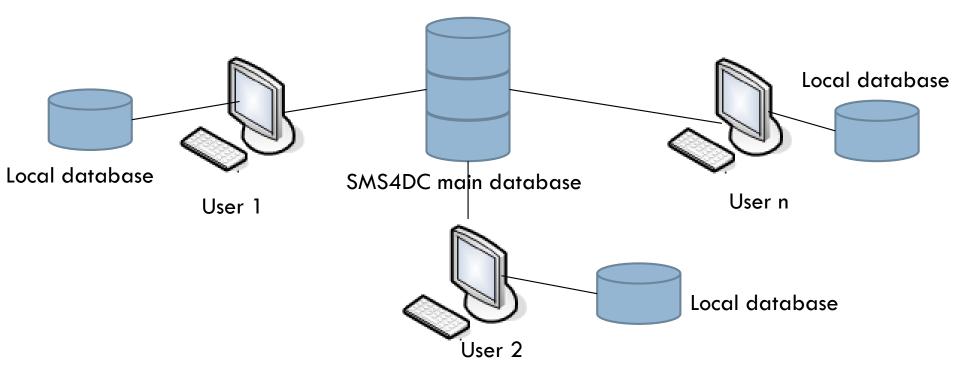
Automation for spectrum management activities

SMS4DC current usage

Improvements to be considered

- Several training sessions have been performed
 - Algeria
 - Cameroon
 - Chad
 - Comoros
 - Gabon
 - Guinee

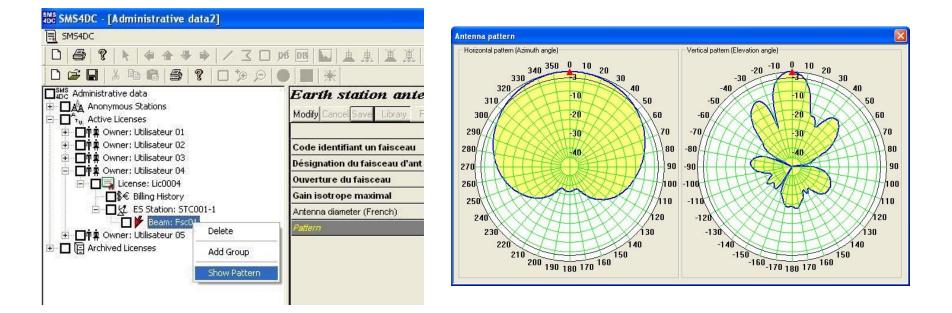
- Installation and networking
 - Client server configuration (main database)
 - Individual database for tests purposes



Licensing and frequency application

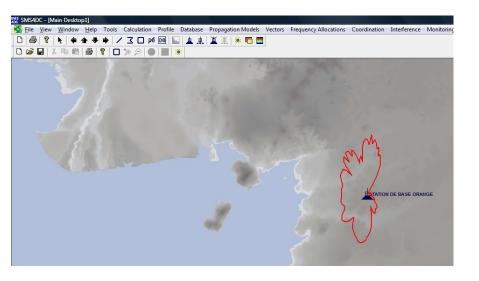
- User creation
- License information entering

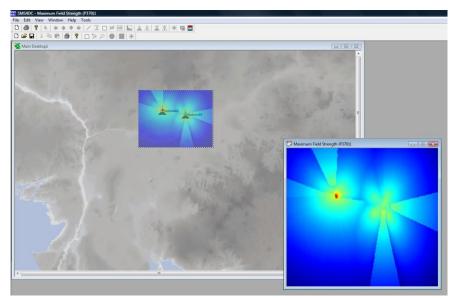
Stations, equipment and antennas informations



Propagation calculations

- Usage of propagation models
- Point to area or point to point calculation
- Field strength contour
- Display calculations on map





Interference calculations

Between broadcasting, fixed and mobile stations

BC to BC	 Interference calculation between broadcasting sound stations
BT to BT	 Interference calculation between broadcasting TV stations
FX to FX (link)	• Interference calculation between microwave links
FX to FX (stations)	 Interference calculation between stations in fixe service
FXM	 Interference calculation between stations in land mobile service and fixe service









Improvements to be considered

Administrative functions	 Improve the billing tool Create a search by criteria tool (name, license number, date) Statistics reports tool (number of licenses, number of stations by service)
Engineering functions	• Import stations from notice files
Graphical user interface	 Increase the basic map resolution

Thank you for your attention

Arnaud DAMIBA 22 July 2018



Television Tower St. Chrischona, Switzerland Source : wikipedia