



# Autoridade Nacional de Comunicações de Timor Leste (ANC)

ANC Spectrum Management



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# Autoridade Nacional de Comunicações

- ANC is a statutory authority established by the Telecommunications Decree Law No. 15 of 28 March 2012
- ANC is Timor-Leste's regulator for :
  - Telecommunications
  - Radio-communications
  - Broadcasting
  - The internet

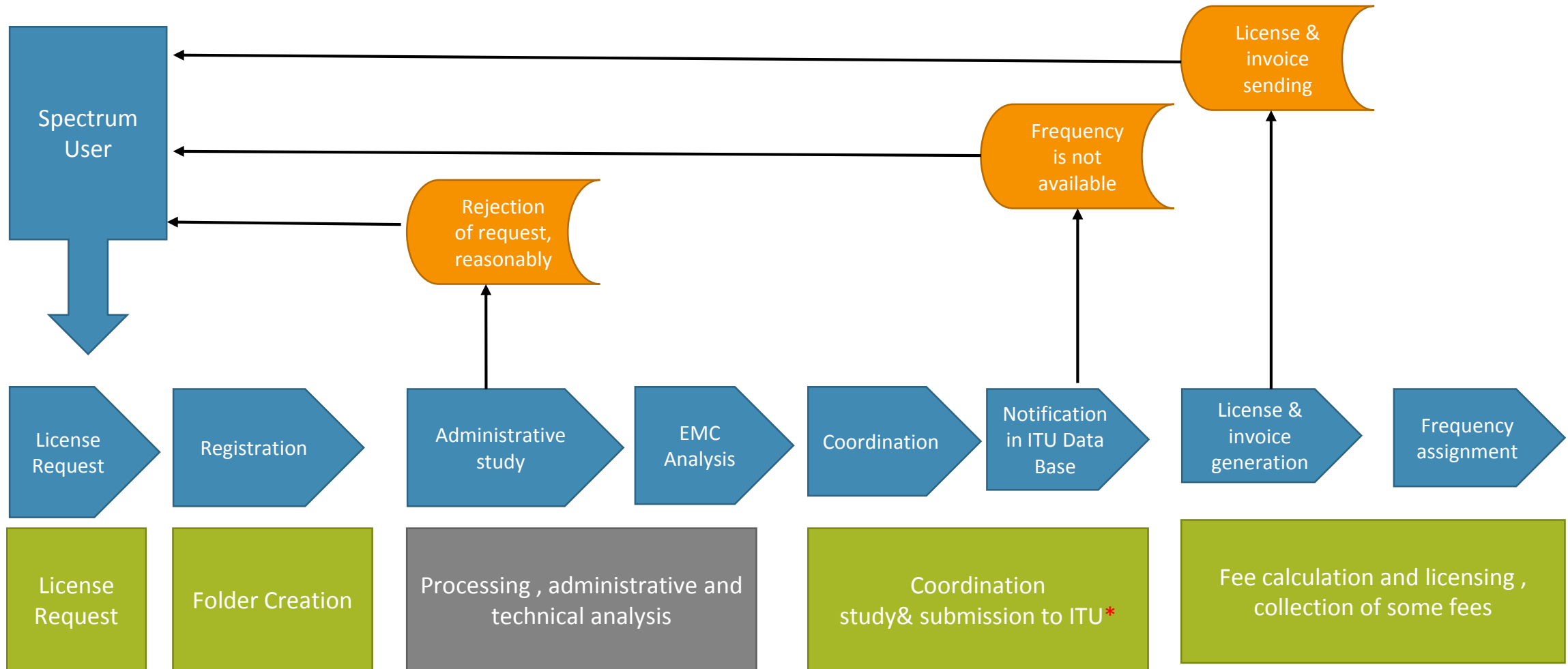


# Telecommunication Services

- 3 Telecoms Providers
  - Timor Telecom (Fixed and Mobile)
  - Telemor (Mobile)
  - Telkomcel (Mobile)
- Radio and TV Broadcasting
- Broadband Network



# ANC General Procedure for Licensing



\* ITU notification is not required for each cases, and that a bi/multilateral agreement is stronger than the RR (see Article 6 of the RR)



# Spectrum Management System for Developing Countries(SMS4DC)

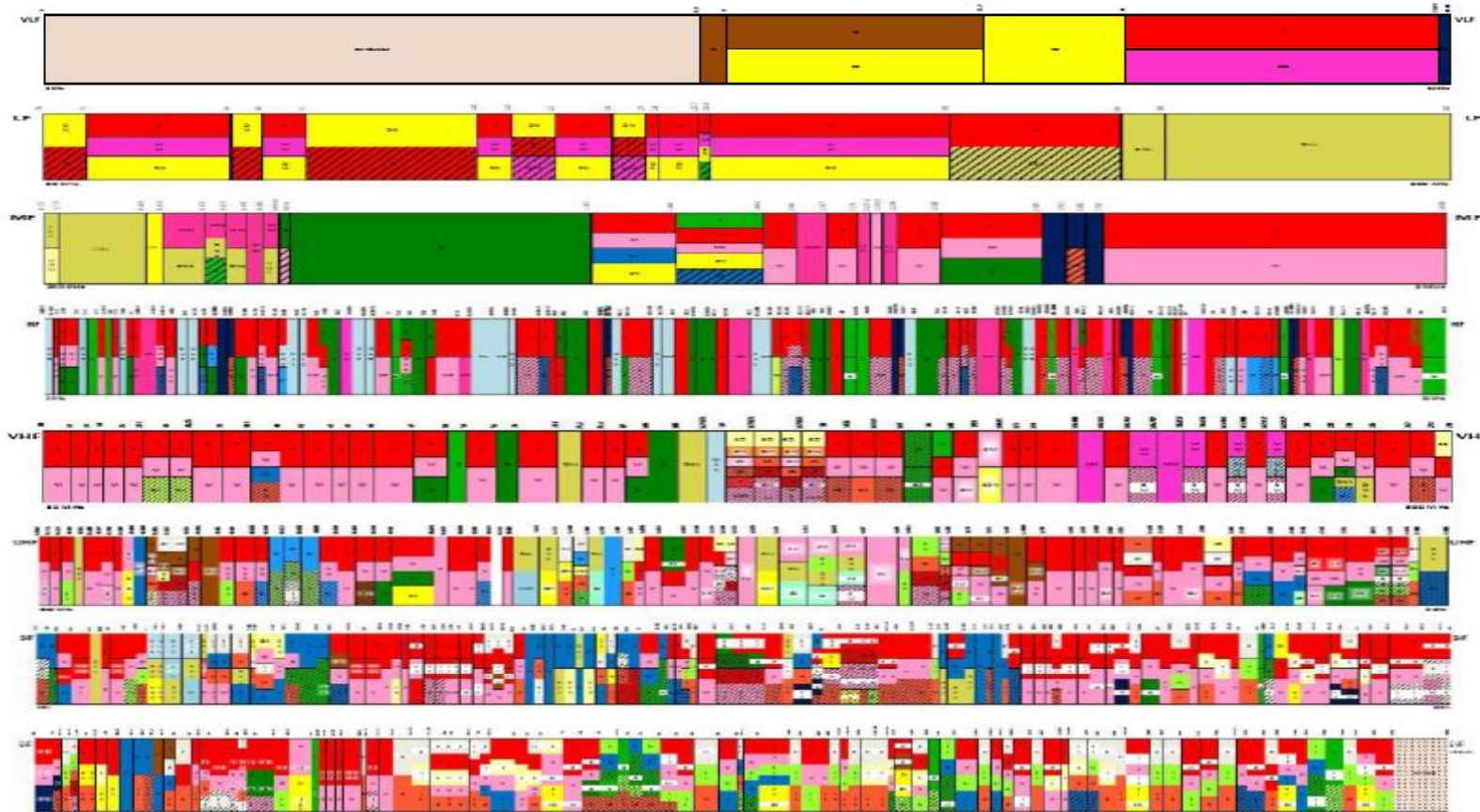
- Frequency allocation menu of SMS4DC provides regional and national frequency allocation tables
- Frequency allocation table is used for frequency assignment
- No frequency should be assigned in contradiction with frequency allocation table
- Network calculation, aggregate field strength, maximum server and best server analysis, coverage area, using SMS4DC Propagation Models P1546-5.



# Frequency Allocation Chart

TABELA DE ATRIBUIÇÃO DE FREQUENCIA DA REPUBLICA DEMOCRATICA DE TIMOR – LESTE

TABLE OF FREQUENCY ALLOCATIONS OF THE DEMOCRATICA REPUBLIC OF TIMOR – LESTE



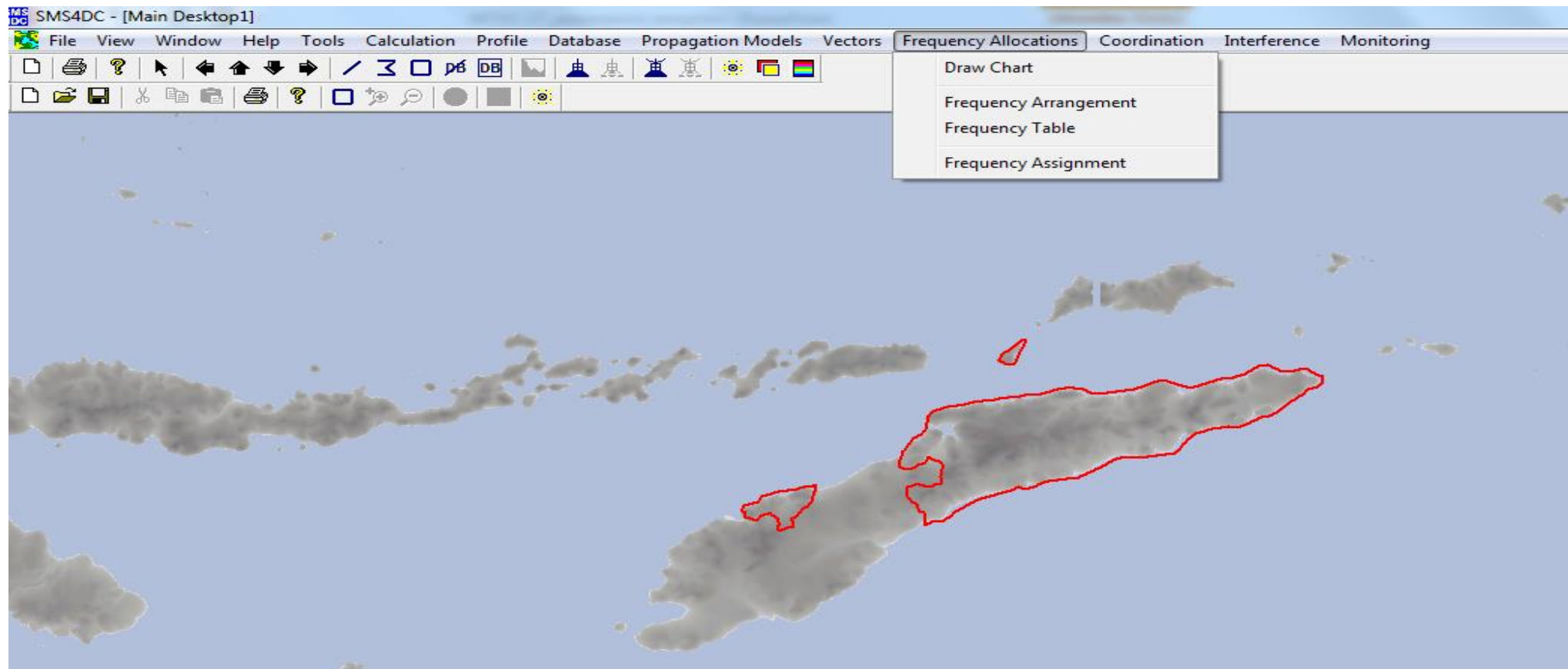
BA	Broadcasting
RL	Radiolocation
ON	Radiionavigation
ONAS	Aeronautical radiionavigation
ONMS	Maritime radiionavigation
FI	Fixed
SF	Standard frequency and time signal
MT	Mobile
LM	Land mobile
MM	Maritime mobile
AM	Aeronautical mobile
AMR	Aeronautical mobile (R)
AMC	Aeronautical mobile (C)
AMX	Mobile except aeronautical mobile
AMXR	Mobile except aeronautical mobile (R)
WA	Metereological aids
SA	Amateur
SA	Radio Astronomy
SS	Broadcasting-satellite
SD	Radiodetermination-satellite
SDN	Radiodetermination-satellite
SP	Fixed-satellite
SPS	Standard frequency and signal-satellite
SI	Inter-satellite
SA	Mobile-satellite
SO	Space-Operation
SR	Space-research
ST	Metereological-satellite
SK	Earth exploration-satellite
SA	Amateur-satellite
SS	Secondary service



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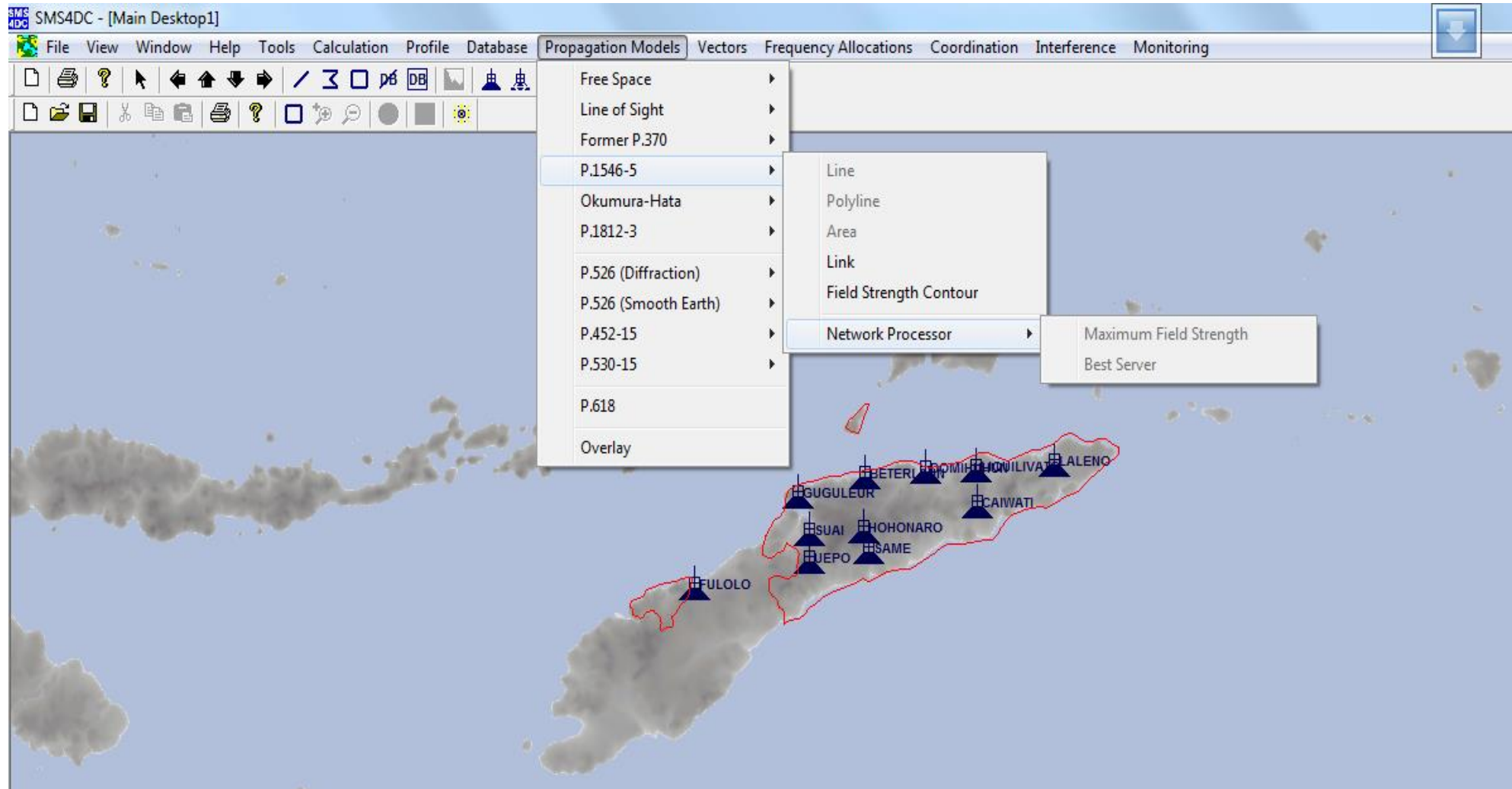
# SMS4DC Frequency Allocation

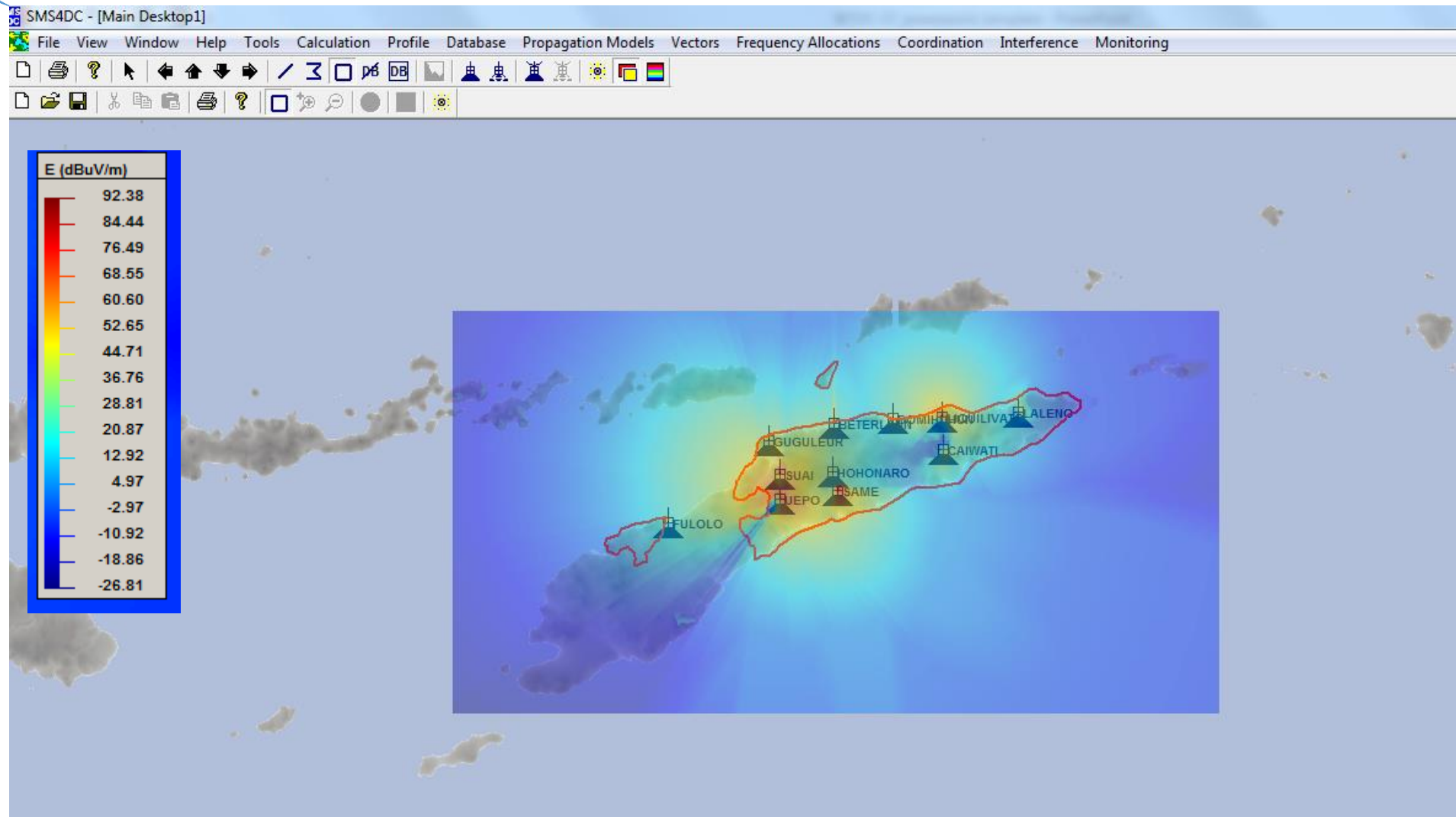






# SMS4DC Propagation Models







## SUMMARY

- SMS4DC is a combination of administrative and technical activities for efficient utilization of spectrum by users without causing harmful interference in their service area
- SMS4DC More economically for developing Country
- Registration of administrative, geographical and technical information in an electronic database
- Comparison with frequency allocations table, frequency plans and other similar criteria
- Frequency coordination analysis
- Technical analysis to calculate coverage area, adjust emission characteristics and tune technical parameters
- Post-processing of results to find frequency fee, generate technical reports and license print out



**END  
OBRIGADO**