

National Spectrum Management

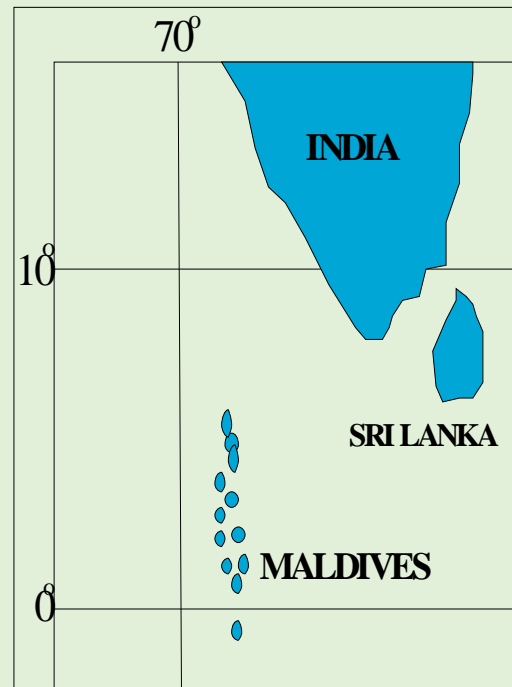


Communication Authority of Maldives

Abdulla Shiham

Maldives Background

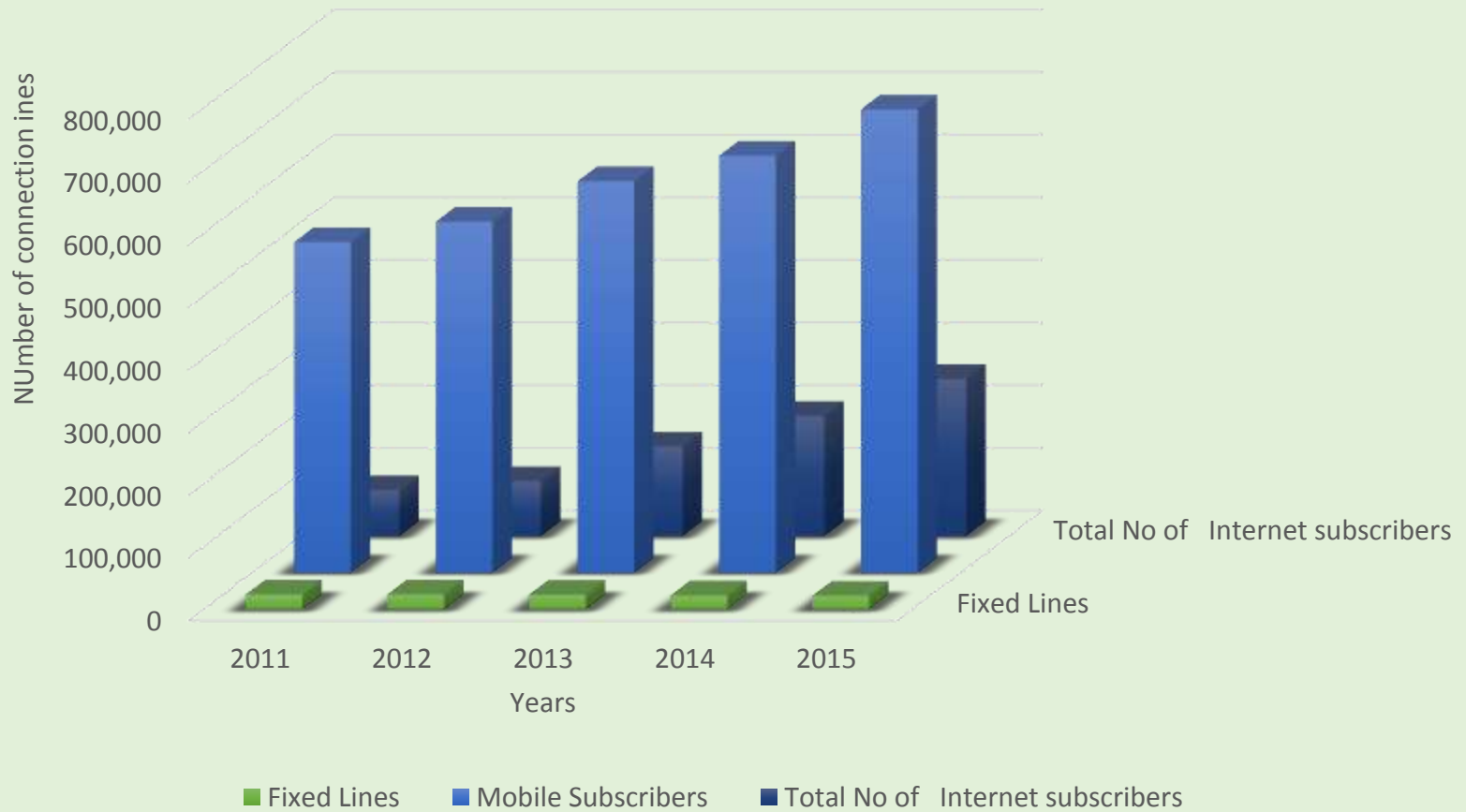
- ❑ Area: 115,000 sq. Km (Including sea)
- ❑ Population: 347,552 (30% youth)
- ❑ Inhabited in 188 island of 1192 islands
- ❑ Key Industries: Tourism & Fishing
- ❑ Literacy : 98%
- ❑ Per Capita GDP :~ USD 5980.00
- ❑ Currency ; Maldivian Rufiyaa, MVR
- ❑ Exchange rate : USD 1 = MVR 15.42



Telecom Statistics

Telecom Statistics, years	2011	2012	2013	2014	2015
Total Number of Fixed Lines	24,084	24,205	23,631	22,549	21,911
Number of Mobile Subscribers	527,844	560,547	625,161	665,818	739,790
Post paid	72,751	71,463	73,751	78,656	87,051
Pre-paid	455,093	489,084	551,410	587,162	652,739
Total No of Internet subscribers	73,333	87,700	143,076	191,935	250,995
No of Fixed Broadband subscribers	17,638	18,059	20,351	19,842	23,175
No of Mobile Broadband subscribers (Data only + on Voice SIM) ²	55,695	69,641	122,725	172,093	227,820
Total Tele Density - mob + fixed	169.8	176.5	193.0	201.4	219.2
No of Mobiles per 100 inhabitants	162.3	169.5	185.9	194.8	212.9
Population	325,135	330,652	336,224	341,848	347,552

Number of Connection for last ten years

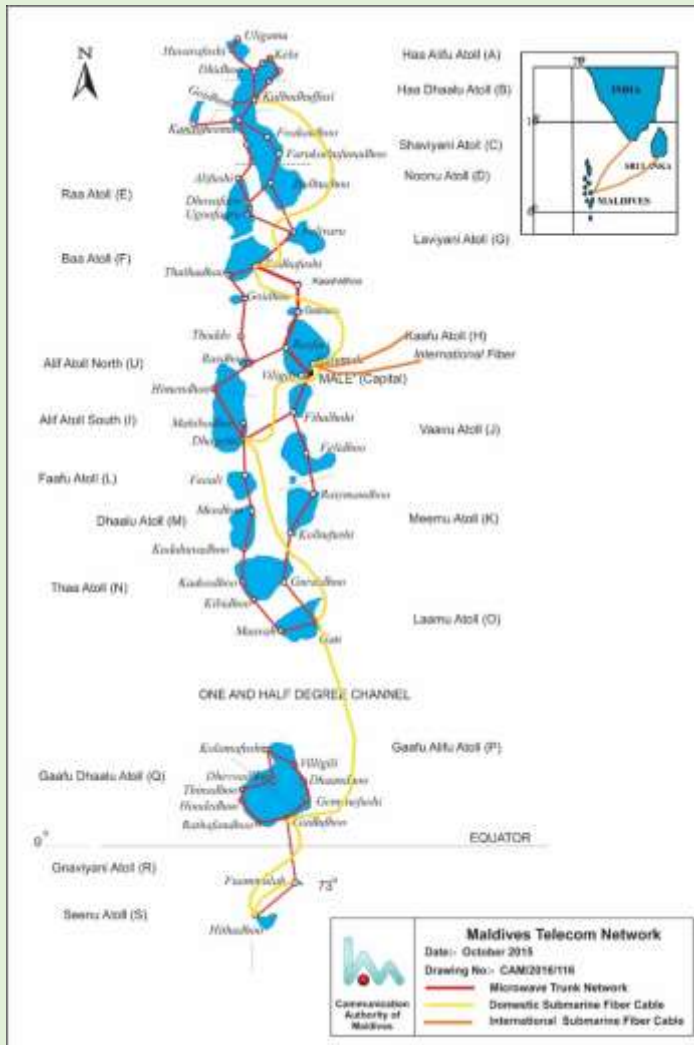


Present internet status

Population Range	Islands	Population	Islands with Internet	Total Pop
Below 200	7	274	1	130
200 - 500	49	19,800	18	7,273
500 -1,000	67	71,655	47	44,612
1,000 - 2,000	45	87,383	45	87,383
More than 2,000	20	168,440	20	168,440
Total	188	347,552	131	307,708

Internet class license

- ❑ Internet class license is to promote access internet service to the underserved islands,
- ❑ 2.4GHz, Wi-Fi, 5.7 and 5.8GHz ISM band
- ❑ with a limited power that can only served to an islands
- ❑ We have licensed almost 56 Island



Two separate network

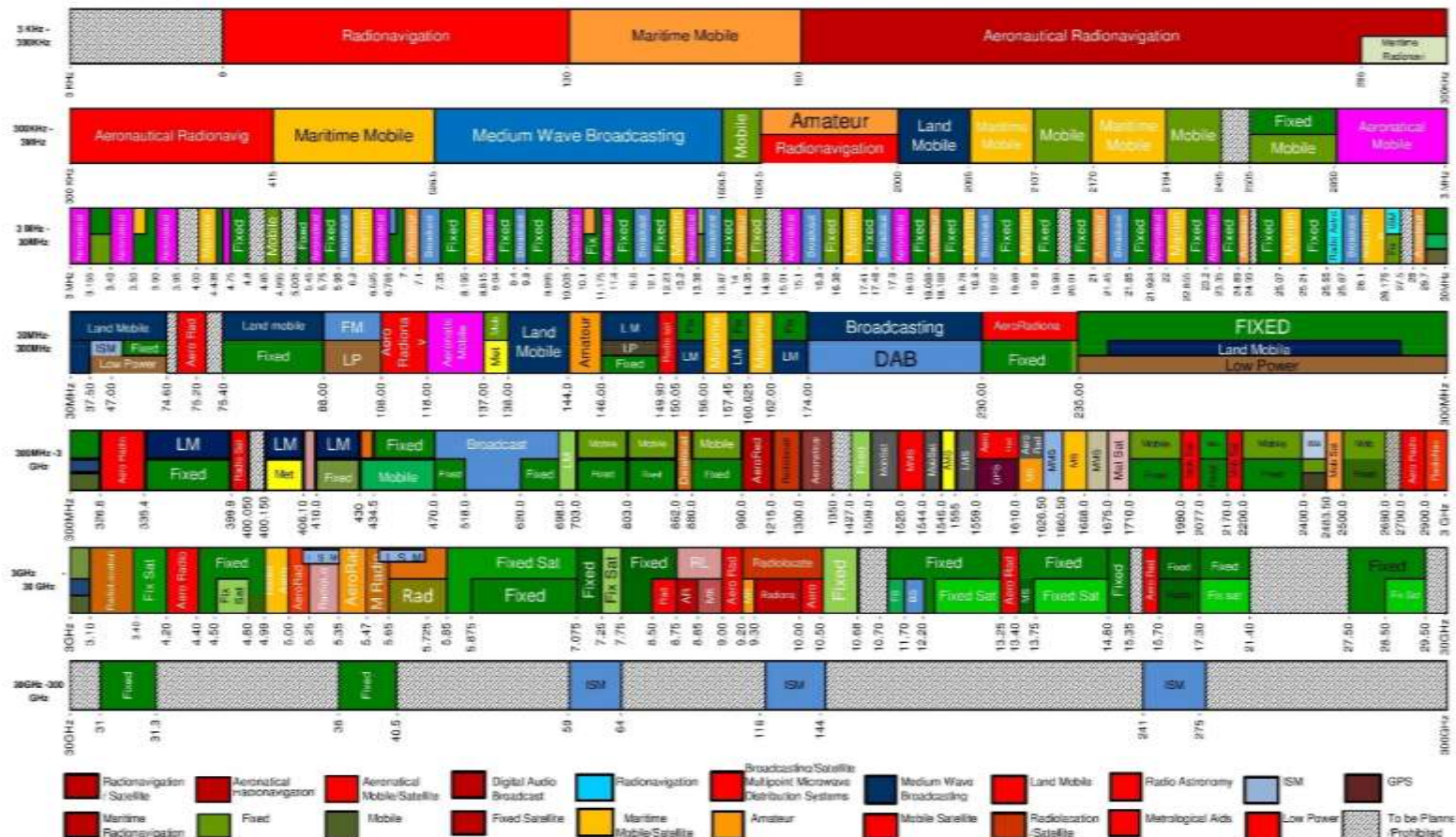
100 Percent coverage

- Voice and Internet service
- 3G & 4G
- ~ 89% of population with 3G
- ~ 45% of population with 4G



Maldives Spectrum Allocation Chart

Frequency Spectrum is not drawn to scale

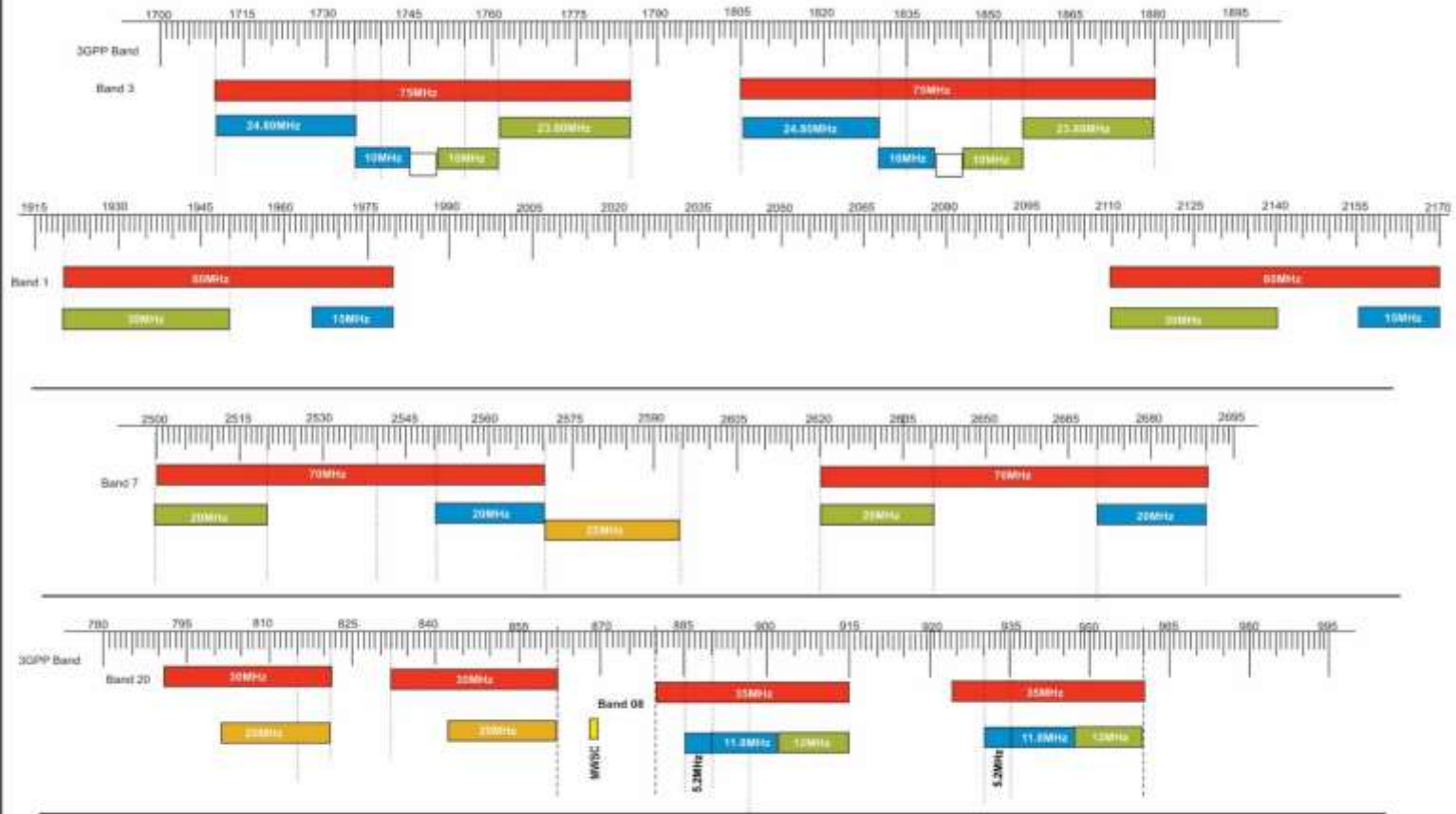



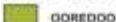


National Spectrum Management Structure

- ❑ Maldivian Telecommunication law 43/2015, which effective on 10th April 2016, Just 7 months ago
- ❑ Chapter 9, of Maldives Telecommunications Law give power to Plain, assign and manage, publish Frequency Spectrum.
- ❑ A set guideline in the law gives room to the plain the frequency spectrum allocation

National Spectrum Management Structure

- For the UHF radios, 440 – 470MHz
- Allocated for resort and construction work use
- For VHF radio, 145 -155Mhz
- For government use purpose, like in prisons
- VHF radio 160 -170 MHz
- Taxi radio service



 CAM	Mobile Spectrum Band Plan	
	Drawn by: Abdullah Shiham	
	Drawing No.: SD/CAM/10154/106	
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Mobile Wireless band plan

- ❑ Operator are able to know the availability
- ❑ To release sufficient, affordable spectrum
- ❑ Easy to meet the customers requirement

Ensuring efficient use of the scarce resource

These following activates are taken to ensure efficient use of spectrum

- ❖ Planning and coordinating frequency usage at,
 - International,
 - regional --
 - sub-regional –
 - National level

- ❖ Assign the spectrum nationally and monitor resolve interferences

Promoting competition

- ❑ Under the law we can organize the following
- ❑ Auctions, frequencies or frequency bands as per guidelines
- ❑ Call for estimates for the sale of frequencies
- ❑ At an set price we can sale the frequencies

Allocation of frequency bands for assignment

- ❑ Department of civil aviation
 - ✓ They assigned the frequencies as per there guidelines

- ❑ Maldives Broadcasting Commission (MBC)
 - ✓ MBC went for open bidding process

Thank you

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