

Research Dossier: Oi Móvel

Country

Brazil

Company Name

Oi Móvel S.A.

Ownership Type

Publicly Traded Company

Website

<http://www.oi.com.br/>

MNC

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Company Overview

Oi Móvel S.A., known simply as Oi, is the largest mobile carrier operating in Brazil. The company is a fully owned subsidiary of Oi S.A. the largest telecommunications group in Brazil, listed on the Sao Paulo Stock Exchange as OIBR3.SA.

Oi launched its mobile services in 2002 using standard 2G GSM 1800 MHz, and launched B1 (2100 MHz) 3G services in 2008 after securing 2100 MHz spectrum in a 2007 government auction. The company secured 2600 MHz spectrum in a 2012 government auction to go on to deploy B7 (2600 MHz) services across the country over the next four years. Oi is currently in the process of rolling out its B31 (450 MHz) rural LTE network.

In April 2018 the company announced plans to implement LTE-A 2C aggregation of its B3+B7 networks with completion by July 2018. Oi announced in March 2019 that it had embarked on an extensive 4.5G rollout plan including addition of B1 (2100 MHz) to increase peak data rates using 3C aggregation.

Oi 5G

In a March 2019 press release, the company disclosed details on 5G testing performed in partnership with Huawei, which carried out a holographic call using a 100 MHz channel in the n78 (3500 MHz) band.

▼ 3G UMTS Network Information

Details on UMTS network deployments are shown below. Data are often incomplete due to commercial nature. Consult dossier text for further details.

Launch Date	2008-04	Status	Active
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UMTS Band	Packet Data	Status
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B1 (2100 MHz)	HSPA+	Active
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▼ 4G LTE Network Information

Details on LTE network deployments are shown below. Data are often incomplete due to commercial nature. Consult dossier text for further details.

Evolution	LTE Advanced (LTE-A)	Status	Active [Launched 2013-04]
Max. MIMO	2x2 MIMO	Max. Modulation	64QAM
Carrier Aggregation	CA_3A-7A (B3+B7) CA_1A-3A-7A (B1+B3+B7)	Features	-
LTE Band	Channel Width	Status	
B1 (2100 MHz)	10 MHz	Active	
B3 (1800 MHz)	10 MHz	Active	
B7 (2600 MHz)	10 MHz	Active	
B31 (450 MHz)	5 MHz	Planned	

▼ 5G NR Network Information

Details on 5G NR network deployments are shown below. Data are often incomplete due to commercial nature. Consult dossier text for further details.

Type	NR (Standard)	Status	Planned
Max. MIMO	Massive MIMO	Max. Modulation	256QAM
Carrier Aggregation	-	Features	-
NR Band	Channel Width	Status	
n78 (3500 MHz)	100 MHz	Planned	

Services Available

Field Technical Services

As specialists in 3G, 4G, and 5G cellular technologies, our R-Spectrum team provides in-country technical services to most regions around the world. Operating on a contract basis we are often sent to remote and isolated regions to assist companies in establishing voice and data communications.

RF Coverage Modelling & Planning

Through our R-Spectrum team, we help our clients visualise and understand mobile signal issues by offering a range of radio frequency modelling services for 2G GSM, 3G UMTS, 4G LTE, and 5G NR cellular technologies. The first step to solving any problem is to understand the problem.

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