



TIM PARTICIPAÇÕES S.A.

Publicly-Held Company
Corporate Taxpayer's ID (CNPJ/MF):
02.558.115/0001-21
Corporate Registry (NIRE): 33 300 276 963

TIM S.A.

Closed Company
Corporate Taxpayer's ID (CNPJ/MF):
02.421.421/0001-11
Corporate Registry (NIRE): 33.300.324.631

NOTICE TO THE MARKET

TIM & VIVO Network Infrastructure Sharing Agreement

TIM PARTICIPAÇÕES SA (“Company” or “TPAR”) (B3: TIMP3; NYSE: TSU) and its wholly-owned subsidiary TIM SA (“Subsidiary” or “TIM”) together, pursuant to Article 157 of Law 6,404 and the provisions of CVM Instruction 358, communicate to its shareholders, the general market and other interested parties that:

TIM and TELEFÔNICA BRASIL SA (VIVO), jointly referred to as “Companies”, in addition to the Notice to the Market released on July 23, 2019, report the progress of negotiations initiated with the signing of the Memorandum of Understanding (MOU), which result in the implementation of two transfer-of-rights agreements for sharing 2G, 3G and 4G mobile network infrastructure.

The Companies assess that these initiatives mark the beginning of a revolution in the Brazilian telecommunications market, with regard to infrastructure sharing. Customers will benefit directly from an enhanced user experience stemming from increased traffic capacity at both Companies and from service expansion, with the entry of one of the operators in cities where TIM or VIVO were not present (over 400 new cities to be covered by each carrier over the first year of the contract). There are opportunities in operational and financial efficiencies for the Companies, prompting the optimization of assets and resources.

The agreements are divided into the following initiatives:

- (i) **Creation of a unique 2G technology network** to be implemented where both operators are present, so that the remaining operator will provide 2G mobile connectivity services to the TIM and VIVO customer base. This initiative covers the entire national territory, involving about 2,700 cities, and will result in the deactivation of overlapping sites with subsequent cost savings and the optimization of spectrum use.
- (ii) The second contract (**Single Grid**) covers only cities with less than 30,000 inhabitants, with the objective of creating a single 4G and 3G network in cities where only one operator is present (Expansion of coverage) and where both operators already offer services (Network Consolidation):

- **4G and 3G coverage Expansion** in cities where one of the Companies is present and the other has no coverage. Each of the Companies will grant access to their network in more than 400 municipalities, bringing the total scope of the initiative to more than 800 municipalities, contributing to the expansion of the 4G network with reduced investment volume;
- **Network Consolidation**, due to the innovative technical and operational solution, the initiative will have an initial scope of 50 cities, with each operator being responsible for 25 locations. The initial project is scheduled to be finalized and the result evaluated within 180 days of the start of the project, at which time it will be decided whether to extend the total perimeter of the initiative, with the potential to cover over 1,600 cities.

Single Grid initiatives will enable a better customer experience by leveraging increased network capacity and spectral efficiency through frequency sharing in a Multi-Operator Core Networks Ran Sharing (MOCN) approach, as well as cost savings and investment optimization. The implementation will be done gradually, as long as the quality and functioning of the initiatives are certified.

The Contracts are subject to communication and prior approval by the National Telecommunications Agency - ANATEL and the Administrative Council for Economic Defense - CADE.

The Companies reiterate that they will preserve their business and customer management autonomy, regardless of any infrastructure sharing agreement.

The Company will keep their shareholders and the market informed in accordance with the regulations in force.

Rio de Janeiro, December 19th, 2019.

TIM Participações S.A.

Adrian Calaza
Chief Financial Officer and
Investor Relations Officer

TIM S.A.

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Investor Relations Officer