# THE ESSENTIAL IN ESSENTIAL FACILITIES: THE CASE OF **DIGITAL PLATFORMS**

# O ESSENCIAL NAS INSTALAÇÕES ESSENCIAIS: O CASO DAS PLATAFORMAS DIGITAIS

#### CAMILA CABRAL PIRES-ALVES<sup>1</sup>, I

I Universidade Federal do Rio de Janeiro (UFRJ). Rio de Janeiro (RJ). Brasil.

#### DIANDRA CAROLINA DA ROCHA<sup>2</sup>, I

I Universidade Federal do Rio de Janeiro (UFRJ). Rio de Janeiro (RJ). Brasil.

#### EDUARDO PONTUAL RIBEIRO<sup>3</sup>, I

I Universidade Federal do Rio de Janeiro (UFRJ). Rio de Janeiro (RJ). Brasil.

#### JOÃO LUIZ PONDÉ<sup>4</sup>, 1

I Universidade Federal do Rio de Janeiro (UFRJ). Rio de Janeiro (RJ). Brasil.

#### LUIZ CARLOS DELORME PRADO<sup>5</sup>. 1

I Universidade Federal do Rio de Janeiro (UFRJ). Rio de Janeiro (RJ). Brasil.

#### MARCOS PUCCIONI DE OLIVEIRA LYRA<sup>6</sup>, II

II Universidade Federal Fluminense (UFF). Niterói (RJ). Brasil.

ABSTRACT: The paper examines the applicability of the Essential Facilities Doctrine (EFD) in the context of competition policy in digital platform markets. It begins by comparing this doctrine with the traditional antitrust approach to anti-competitive practices such as tying and raising rivals' costs. It demonstrates that both approaches aim to address antitrust harm resulting from the extension of market power into additional competitive environments. However, the EFD also considers specific conditions that warrant non-discriminatory access obligations and potential regulatory intervention. This comparative analysis of similarities and differences is employed to address antitrust issues in digital platform markets, given the existence of bottlenecks and gatekeepers that can exploit market power. The paper uses the Buscapé v. Google (Google Shopping) case, which was examined by Brazilian antitrust authority in 2019, as an illustrative example to highlight the possible approaches to these antitrust concerns.

KEYWORDS: Essential Facilities Doctrine; Refuse to Deal; Market Power Leveraging; Digital Platforms, Antitrust Policy.

RESUMO: O artigo examina a aplicabilidade da Doutrina das Instalações Essenciais (DIE) no contexto da política de defesa da concorrência nos mercados de plataformas digitais. Inicialmente, esta doutrina é comparada com a abordagem antitruste em casos de condutas anticompetitivas, como venda casada e elevação de custos de rivais. É apontado que ambas as abordagens buscam combater danos resultantes da extensão do poder de mercado para ambientes competitivos adicionais. No entanto, a DIE considera também condições específicas que justificam a imposição de obrigações de acesso não discriminatório e possíveis intervenções de natureza regulatória. Essa análise comparativa de semelhanças e diferenças é utilizada para abordar questões antitruste nos mercados de



<sup>&</sup>lt;sup>1</sup> Orcid: https://orcid.org/0000-0001-7888-3235

<sup>&</sup>lt;sup>2</sup> Orcid: https://orcid.org/0009-0009-6052-2875

<sup>&</sup>lt;sup>3</sup> Orcid: https://orcid.org/0000-0003-4032-9962

<sup>&</sup>lt;sup>4</sup> Orcid: https://orcid.org/0009-0007-6168-9867

<sup>&</sup>lt;sup>5</sup> Orcid: <u>https://orcid.org/0000-0001-8269-2853</u>

<sup>&</sup>lt;sup>6</sup> Orcid: https://orcid.org/0000-0003-4427-1147



plataformas digitais, dada a existência de bottlenecks e gatekeepers que podem explorar abusivamente o poder de mercado. O Buscapé v. Google Shopping (Google Shopping), que foi julgado pela autoridade antitruste brasileira em 2019, é utilizado para destacar as possíveis abordagem para as questões antitruste envolvidas.

PALAVRAS-CHAVE: Doutrina das Instalações Essenciais; Recusa de Venda; Alavancagem de Poder de Mercado; Plataformas Digitais, Política Antitruste.

### INTRODUCTION

In the last decade, the application of competition policy in digital platforms and related markets has been the subject of intense discussion and controversy, involving theoretical, empirical, and policy design issues. To contribute to this debate, this article aims to analyze the doctrine of essential facilities, highlighting its similarities and differences compared to the traditional antitrust approach to anti-competitive practices such as tying and raising rivals' costs.

This paper explores the applicability of the Essential Facilities Doctrine (EFD) in digital markets, within the broader context of assessing the effects of various exclusionary practices. We argue that both the Essential Facilities Doctrine (EFD) and the traditional antitrust approach share a common mechanism in creating antitrust harm. This mechanism involves the extension of market power into an additional competitive environment, as has been extensively discussed in the ongoing debate between the leverage hypothesis and the single monopoly theory in tying cases.

However, the EFD also assumes that this occurs under specific conditions, which justify establishing an obligation of non-discriminatory access and even introducing specific regulation. This implies the need for an analytical separation between the conditions that define the essentiality of an input and the mechanism that allows for the use of its control to leverage market power.

We point out how the existence of bottlenecks creates the possibility of competition problems in digital platform markets, given the presence of gatekeepers who can control an essential facility or use their market power to engage in tying or forms of discrimination that reduce rivals' competitiveness. An antitrust approach to addressing these competition problems is illustrated by the case of Buscapé v. Google (Google Shopping), which was analyzed and decided upon by the Brazilian antitrust authorities. Without delving into whether the decision was correct or not, the case presents an example of a separation between the essential facility and leveraging analyses.







The paper is organized as follows: after this introduction, the next section clarifies the EFD and associated theories of harm. The second section reviews digital platform characteristics and possible gatekeeper power. The third section reviews the Google Shopping case in Brazil to illustrate our arguments. The last section presents a summary of our main conclusions.

# 1. THE ESSENTIAL FACILITIES DOCTRINE: CONCEPT, CRITIQUE AND CURRENT STANDING.

# 1.1. THE ORIGINAL FORMULATION OF THE ESSENTIAL FACILITIES DOCTRINE

The essential facility concept has been used extensively in antitrust cases in several jurisdictions, including Brazil. The Essential Facilities Doctrine (EFD) was originally derived from a 1912 case (United States v. Terminal Railroad Ass'n of St. Louis). In this case, the US Supreme Court ruled that a consortium of railroad facilities that carried freight traffic and passengers across the Mississippi River in St. Louis must comply with the following conditions: (i) allowing other railroads into the consortium; (ii) charging non- consortium railroads infrastructure usage fees that would place them on nearly equal footing as the consortium members.<sup>8</sup> Lower courts in the USA subsequently established the doctrine that, under antitrust law, requires a monopolist firm controlling a facility, which cannot be replicated (due to technical or financial reasons) and is essential for competitors, to provide reasonable access to this facility for competitors.



<sup>&</sup>lt;sup>7</sup> On the following sample cases, the EFD has been brought forth by parties. It has not been a central part of the decision making. These cases give us a general view as how EFD have been argued in different processual contexts at CADE. See, for example, PA 087000001831/2014-27 - Petro Distribuidora de Combustíveis x Concessionária do Aeroporto de Guarulhos, BR Distribuidora, Raizen and AirBP Brazil; PA 08012.000504/2005-15; Some more recent cases are: Processo Administrativo 08012.001518/2006-37-Marimex Despachos Transportes e Serviços Ltda. X Rodrimar S/A Transportes, Equipamentos Industriais e Armazéns Gerais. Ato de Concentração nº08700.001197/2022-32-11, Cattalinni Terminais Marítimos AS e União Vopak Armazéns Gerais Ltda; IA n°08700.001110/2020-65.

<sup>&</sup>lt;sup>8</sup> See USA – DoJ Archives, Competition and Monopoly: Single -Firm Conduct Under Section 2 of the Sherman Act, Chapter 7 - Unilateral, Unconditional Refusals to deal with Rivals available https://www.justice.gov/archives/atr/competition-and-monopoly-single-firm-conduct-under-section-2-shermanact-chapter-7.



Hence, two crucial questions arise: how to demonstrate the "essentiality" of a facility and how to establish mechanisms that ensure fair access to this facility for competitors? The EFD would be aptly applied to a subset of practices categorized as refusals to deal with a competitor. Graeff (2020) argues that the EFD is applicable in cases where new customers are denied service, while a refusal to deal refers to supply "there is a pre-existing course of dealing between the dominant firm and the access seeker" (p.41). To establish an antitrust violation using the EFD, it is necessary to demonstrate that this refusal involves an essential input and cannot be reasonably justified by valid business reasons.

In the 1990s the term "essential" meant that the duplication must be unfeasible or unreasonable, signifying more than just an inconvenience or some economic disadvantage (OECD, 1996, p.8). During that period, the notion of essential facilities controlled by a monopolist was closely associated with tangible infrastructure like bridges, harbor terminals, and telecommunication networks, or with bundles of rights acquired through government concessions, such as airport slots, interurban telecommunication services, or authorization to employ wire circuits (local loops) within urban areas.

Legal decisions in the US and EU have established a checklist to assess the legality of potential anticompetitive behavior under the EFD, resembling a legal standard. Guggenberger (2021b) references the well-known MCI Communications case test for 'access request', which includes the following criteria: "(1) control of the essential facility by a monopolist; (2) a competitor's inability practically or reasonably to duplicate the essential facility; (3) the denial of the use of the facility to a competitor; and (4) the feasibility of providing the facility." (p. 308). Decisions by the European courts, most notably associated with the Bronner case, as highlighted by Dunne (2020), led the DGComp to compile a set of steps for analysis (in refusal to deal cases) in their Guidance paper (EU, 2009):

> "[a] the refusal relates to a product or service that is objectively necessary to be able to compete effectively on a downstream market; [b] the refusal is likely to lead to the elimination of effective competition on the downstream market, and; [c] the refusal is likely to lead to consumer harm."(p. 18-19)



<sup>&</sup>lt;sup>9</sup> See also Pitofsky et al. (2002).



Both checklists emphasize the criteria of 'essentiality', 'necessity' or 'indispensability' as the first step. The EFD in the US is much stricter, requiring the input to be 'essential' and held by a monopolist. Interestingly, in the US the 'essentiality' may be attributed to a requirement to use, while in the EU there is a broader description of indispensability. Therefore, as Dunne (2020) shows, indispensability is context-specific and largely depends on the effects of supply restrictions. In other words, there are no "effective substitutes, no prospect of selfsupply" (p.80) in the European analysis. Indispensability can be assessed by evaluating whether the absence of the input hinders the ability to exert effective competitive constraint. This perspective eschews simplistic polar analysis of "practical convenience" on one side and "nor absolute necessity" (p.80) on the other.

The EFD emerged within the context of the US private and unregulated environment. Even in this context, the doctrine had multiple interpretation, as well noted by Sally Van Siclen, from the OECD Secretariat: "each [meaning] having to do with mandating access to something by those who do not otherwise get access" (OECD, 1996, p.13). The Brazilian economic environment differs significantly from that of the US and shares more similarities with regulated markets in Europe. In this context, the EFD is more likely to arise when a firm holds a monopoly due to regulatory reasons or when a firm is publicly owned or operates in a market of public interest subject to regulatory rules. In such a context, the desired policy objectives can be attained by employing economic regulation as an alternative to relying solely on antitrust decisions.

Therefore, in Brazil, the EFD has been applied in cases associated with monopolies resulting from control of physical facilities, as well as those derived from monopoly of rights. This latter case, sometimes, is similar to the concept of a gatekeeper. The EFD relies on the analysis of the economic harm due to the control of a non-replicable asset (for economic, technical of physical reasons). The next section will explore the relationship between the theory of harm and the EFD doctrine.

### 1.2. ESSENTIAL FACILITIES AND THE ASSOCIATED THEORY OF HARM







The theory of harm underlying the EFD relies on the hypothesis of *leveraging* market power between two vertically related markets, with the presence of a dominant company in one of these markets (typically upstream) and competitive rivals in the other (downstream). By controlling essential facilities that act as a bottleneck for companies operating in the competitive market, the dominant company can limit access to essential inputs and restrict the competitive capacity of its rivals, thereby establishing a dominant position for itself in the downstream market. In other words, the assumption is that the company holding control over the bottleneck has an incentive to extend (or leverage), through anticompetitive practices, the market power derived from exclusive access to the bottleneck to related markets that depend on it (LAFFONT and TIROLE, 2001, p. 97-8).

However, since the 1970s, the leverage hypothesis, which is also used to characterize the anticompetitive effects of tying practices, has faced strong criticism. The basic problem with this hypothesis was that if a company effectively holds a monopoly over an essential input, the full extraction of available monopoly profit can be achieved directly through the pricing of that input, without requiring any exclusionary practice to extend that market power to other markets.

Many antitrust authorities have published vertical conduct guidelines, which offer guidance for the analysis of abuse of dominance and provide a unified logical analytical structure for evaluating antitrust harm of various exclusionary conducts, such as vertical restraints. This approach was nicely presented by the International Competition Network -ICN (2018): In the case of vertical restrains the defendant must be capable of generating anticompetitive harm and must have the *incentive* to do so. 10

The capability to generate harm from a refusal to deal stems from the absence of alternatives and/or the significance of the refused input to the downstream user, which arises from its indispensability. In cases where an input is totally controlled by a monopolist, the lack of alternatives is typically evident immediately. In ordinary cases, the indispensability of the input encompasses both the lack of alternatives and the impact on the costs of the input users.

The (lack of) incentives to generate harm from leveraging market power from one market to another through a refusal to deal has been addressed by the single monopoly profit

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<sup>&</sup>lt;sup>10</sup> In merger control one must first show that the merger can generate antitrust harm, i.e., a possibility, and later consider that there is a likelihood of harm, from the incentives of the merging companies.



hypothesis (SMP) in the analysis of essential facilities cases. The argument of SMP can be presented in the case of a potential tying of two products, where Product A is offered under monopoly conditions and Product B under competitive conditions (BORK, 1978, p. 228-31).<sup>11</sup> If the products are sold separately, the price of A (p<sub>a</sub>) represents the monopoly price, and the price of B (p<sub>b</sub>) a competitive price, thus equal to its marginal cost cb. However, if the products are bundled together at no additional cost, and v is the maximum price consumers are willing to pay for the AB system, the monopolist's profit per unit bundle from offering A will be v - cb - ca. Therefore, if the monopolist engages in tying, becoming the sole provider of B as well, their profit per unit will necessarily be the same: v - c<sub>b</sub> - c<sub>a</sub>. <sup>12</sup> In other words, market power leverage does not create additional monopoly profit to be extracted. Thus, the practice of tying, bundling, or refusal to deal could only be explained by efficiency reasons (efficiency gains in joint production and distribution, contractual efficiencies).

Applied to the essential facilities doctrine, this argument suggests that: (i) there is no antitrust harm from restrictive practices of essential facilities holders with respect to trading with other firms; and that (ii) what is at stake is the exploitation of a pre-existing monopolistic position, not its leverage into additional markets and consumers. The latter issue should be resolved by regulation (and/or a regulatory agency) rather by the antitrust law (and/or an antitrust authority).

Nonetheless, as demonstrated in the post-Chicago literature, the SMP hypothesis does not hold universally. Its validity relies on the existence of specific conditions, which can often be violated. In the 1980s, the approach of Raising Rivals' Costs (SALOP and SCHEFFMAN, 1983; KRATTENMAKER and SALOP, 1986) pointed out that a conduct capable of limiting rivals' access to inputs or resources on reasonable terms can indeed generate significant anticompetitive effects. Such conduct would be both profitable and detrimental to consumers, involving the use of accumulated market power in one stage of the production chain to restrict



<sup>&</sup>lt;sup>11</sup> In the case of a refusal to deal, that are analyzed under the EFD, we would have a vertically integrated 'monopolist' that competes in a downstream market with potential input buyers. The SMP would consider the downstream market competitive. (e.g., GUGGENBERGER, 2021).

<sup>&</sup>lt;sup>12</sup> As consumers only buy a product if the price is less or equal that its valuation to them,  $V \ge p_a + p_b$ . As the B market is competitive, we have  $p_b=c_b$ . The maximum profit from the bundle would be  $p_a+p_b-c_a-c_b=p_a-c_a$ , which the margin from the monopolist market. There is no profit to reap from the competitive market, assuming the foreclosure does not change the characteristic of the market (WHINSTON, 2001).



competition in another stage, thus reintroducing an element present in the notion of market power leverage: the extension of market power to additional economic spaces.

But, as shown by Krattenmaker and Salop (1986), for potentially exclusionary conduct to negatively affect consumer welfare and be characterized as generating anticompetitive harm, two conditions must be met: (i) the conduct must effectively create competitive disadvantages (cost increases), which would depend on the characteristics of the input market involved; and (ii) the cost increases imposed on rivals (creation of competitive disadvantages) must enable the exercise of market power (price increases). The realization of anticompetitive harm would depend on both the presence of additional factors, such as the magnitude of cost increases for rivals (e.g., when there are economies of scale, as demonstrated by Whinston, 1990), resulting from the actual increase in input prices, and the existence of competition from rivals and/or contestable new entrants that are not subject to cost increases.

From the 1990s onwards, new research has analyzed the anticompetitive harm of exclusionary conduct by investigating the theoretical implications of contractual externalities. The identification of such contractual externalities has allowed for a better understanding of how a company controlling a bottleneck can reduce the competitive capacity of its nonintegrated rivals even in transactions where they do not depend on the access being denied. To make this happen, it is sufficient that, as a result of economies of scale or network externalities, the loss of sales in transactions that depend on access to the bottleneck implies an increase in costs that affects the competitive capacity of the non-integrated company across all its customers. That is, including sales that do not directly depend on access to the bottleneck (WHINSTON, 2001; BERNHEIM and HEEB, 2015).

In this way, the exclusionary practice enables the extraction of additional monopolistic profits beyond those obtained through the pricing of the essential input, as would be the case in the theory of single monopoly profit. There is an economic mechanism that permits formulating the leverage hypothesis and explaining how a monopolist can restrain access to a product or input to extend its market power to adjacent markets. In the case of tying, if the monopolist of product A ties its sale to product B, the presence of economies of scale in the production of B can negatively affect the competitiveness of B producers even in transactions with consumers who only acquire product B. In other words, the exclusionary practice in the sales of the combination AB allows the monopolist to affect rivals and extend its market power to







standalone sales of B.<sup>13</sup> Similarly, in the case of an essential facility, the company that controls the bottleneck can deny access to rivals and thus extend its monopoly power to transactions or segments that do not depend on this access.

From the discussion, it appears that the EFD is a special case in the collection of antitrust analysis regarding refusal to deal and antitrust harm generated by leveraging market power from one market to another, by a dominant firm the in the former market. The table below presents the differences and similarities in the analysis, taking into account both the ability and incentives to exclude competitors or abuse market power.



<sup>&</sup>lt;sup>13</sup> See also Carlton e Waldman (2002).

**Table 1** – Essential/indispensable facilities and leverage mechanisms

|   |     | Is there a plausible leverage mechanism allowing the firm to extract profits from markets where the input is used or in adjacent markets? |  |
|---|-----|---|--|
|   |     | Yes   | No   |
| The control of an essential or indispensable input was proven | Yes | EFD is applicable. It is justifiable to evaluate a solution of a regulatory nature to guarantee isonomy in access.                        | The single monopoly profit hypothesis is valid.  |
|   |     |   | Absence of antitrust concerns.   |
|   |     | From an antitrust point of view, it is justified that the presumption that the denial of access is anticompetitive.                       | There may be justifications for regulation (which do not include the risk of market power leverage). |
|   | No  | Conventional case of exclusionary conduct (e.g. tying).   | Absence of antitrust concerns.   |
|   |     | A detailed investigation is<br>required to verify the presence or<br>absence of competitive harm (and<br>efficiencies)                    | Potential exclusionary conducts (tying, refusal to sell) do not generate anticompetitive harm.       |

Source: table prepared by the authors.

# 2. ESSENTIAL FACILITIES AND LEVERAGING MARKET POWER THEORIES OF HARM IN DIGITAL PLATFORMS CONTEXT

### 2.1. PLATFORMS, BOTTLENECKS AND GATEKEEPERS' MONOPOLY POWER

Digital platforms are ubiquitous in our daily lives, playing a significant role in communication, entertainment, trade and business operations. This topic has attracted significant interest in the past decade with the publication of numerous reports and papers.<sup>14</sup> Platforms are businesses that facilitate transactions between buyers and sellers in an environment with significant cross-network externalities. 15 They operate in two-sided and

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<sup>&</sup>lt;sup>14</sup> E.g., Fernandes (2021), chapter 2, the many reports covered in Lancieri and Sakowski (2021) and also Golovanova and Ribeiro (2022) inter allia. We refer to these references, except where noted.

<sup>&</sup>lt;sup>15</sup> Cross network externalities appear when a demand for good A increases when consumption of good B increases, even with no changes in prices. This may be compared with (own) network externalities, when the attractiveness of a good increases the more consumers of the good are. (Fernandes, 2021, chapter 2).



multisided markets, often referring to themselves as two-sided platforms. The sides are often individual consumers on one side, and business on the other, both platform users and purchasers of platforms services.

Digital platforms share characteristics with other digital businesses, such as a cost structure with high fixed costs and low or zero incremental costs, as well as economies of scale and scope in their cost and technical structure. However, they differ from other digital business as cross network externalities are key for their profitability and business model. Their business is data intensive, as other digital services. They also use algorithms to personalize the offering of goods, reducing search costs and enhancing user satisfaction with the platform. Two-sided platforms often dominate markets where innovation creates significant competitive advantage, with competition for the market.<sup>16</sup>

While platforms, due to their cost structure and scalability, may face high levels of entry, the network externalities and, arguably, services customization create significant barriers to entry and may lead to a winner-takes-all or winner-takes-most outcomes. Consumers often single-home, i.e., consume from only one provider, facing switching costs, whether direct or behavioral. Consequently, platforms become gateways to reach large groups of consumers within a specific market, exercising immediate control, i.e., gatekeeper control.<sup>17</sup>

Platforms also create their own eco-systems, either through providing a technical environment for other firms to operate (such as hardware operating systems) or by stablishing unique rules of trade (institutions) that require many firms to abide by their rules and practices in order to reach consumers on the other side(s) of the platform.

The 'essentiality' of platforms is often associated to situations in which trading with the platform is the way to reach consumers in the other side of the platform, acting thus as a 'gatekeeper' or 'bottleneck', including but not limited to: (i) very large market shares on oneside of a two-sided market organized by a platform; (ii) data availability required to design and efficiently operate the provision of services and goods to consumers in the other side of the platform (CREMER et al. 2019); (iii) technical standards or patents that must be used by sellers to market products in the (eco-system) platform (GUGGENBERGER, 2021b).



<sup>&</sup>lt;sup>16</sup> The distinction between competition in the market and competition for the market was originally developed by Schmalensee (2000).

<sup>&</sup>lt;sup>17</sup> It should be noted that gatekeeper power of an 'essential' facility is a concept used before digital platforms (e.g., publishing as in COSER, 1975).



The dynamics of digital platforms exploit two concepts: bottlenecks and gatekeepers. Bottlenecks, as earlier defined by Jacobides et al (2006), refer to scarce and critical resources that improve the performance of a system. Firms that control platforms can benefit from innovation by managing industry bottlenecks with the goal of being the leader within the market. Firms that control value-creating assets to be traded by digital platforms aim to control a set of crucial gatekeeper functions, i.e., they intend to command the bottlenecks and manage access to a particular industry. When platforms achieve a position of dominance over access to a large group of users, they are called gatekeepers (BALLON and EVENS, 2014).

The gatekeeping position of a platform may give it an advantage in generating and collecting an input deemed indispensable for effective competition in digital markets, namely, data. Due to their extensive user base, gatekeeper platforms collect much more data than their competitors, giving them a considerable informational advantage (NICOLETTI et al, 2023).

Platforms that control gatekeeper functions can achieve higher margins in some environments by positioning themselves as mandatory bottlenecks between platform business users and customers. Market power in digital platforms can be exercised through the control of a network bottleneck. Bottleneck power arises from both supply-side conditions (control over essential facility or input required by competing producers) and demand-side conditions (consumers' propensity to use only one platform for specific functionalities) (LIANOS and SMICHOWSKI, 2021).

As a gatekeeper, the platform company has the incentive to expand into new markets by providing a wide range of products and services, thereby establishing a stronghold over its customers within its product ecosystem. This strategy enhances the gatekeeper power of the company. It effectively becomes the arbiter of access to its users, exerting control not only over the entry of third parties into its user base but also over the access of its users to content, products, and/or services provided by third parties (BOURREAU and DE STREEL, 2019; OECD, 2023). Other possible examples of strategies to enhance market strategy are the use of exclusive contracts, bundling, or technical incompatibilities (STIGLER CENTER, 2019).

When platforms are both gatekeepers and competitors in a market, such a position allows the platform to assume the role of "private regulators." Therefore, they can determine the participation rules in the exchange of goods and services (SCHWEITZER et al., 2019). This includes monitoring contracts concluded through the platform, establishing community







guidelines, and implementing a reputation system that works as a governance architecture. In doing so, platforms often rely on algorithm-controlled matching systems that guide interactions between supply and demand, as well as among platform users and citizens (BUSCH et al., 2021).

For instance, according to the Competition and Market Authority (CMA) (2019), the UK's Competition Authority, although firms are not required to act neutrally or provide access to their competitors, dominant platforms can prioritize the sale of their own products/services. This practice can be detrimental as it raises barriers to entry and expansion for competitors, while potentially diminishing quality and innovation in different markets.

The gatekeeper power and digital market characteristics, such as cross-network externalities, enable the actual exclusionary power of denying access to platform consumers. This exclusionary power can be achieved even if the platform is not a monopolist. Firstly, the platform must be sufficiently large that the alternative options available to the platform users cannot reach turning points in cross-network externalities. Secondly, network effects act as entry barriers, allowing the refusal to deal potentially block efficient competitors from entering and stifling innovation (GUGGENBERGER, 2021). Lastly, since the market sides are often prone to concentration, the monetizable sides may lack competition, thereby creating an opportunity to reap monopoly profits by controlling them.

# 2.2 EFD AND ANTIRUST ANALYSIS OF LEVERAGING: THE BRAZILIAN GOOGLE SHOPPING CASE

The debate surrounding essential facilities and gatekeepers related to digital platforms can be exemplified by examining the assessment of Google Shopping antitrust cases, which has faced different outcomes in various jurisdictions. While the European Commission imposed significant sanctions on the company, the United States Department of Justice (DoJ) and Brazil's competition authority (CADE) also initiated investigations, deciding not to impose restrictions in their final decisions. Our goal here is not to review in detail the analysis for the decision in Brazil or compare the decisions across jurisdictions. <sup>18</sup> Instead, we review the case

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<sup>&</sup>lt;sup>18</sup> The reader may consult Reymão et al. 2022, or Silveira and Fernandes (2019).



pointing out that the analysis went beyond the EFD, even when concluding that the service provided by Google was not an 'essential facility'.

In Brazil, E-Commerce Media Group, the holding company of price comparison services (PCs) Buscapé and Bondfaro, lodged a complaint against Google. They argued that Google would be favoring Google Shopping by displaying it in a privileged position in Google Search, and by scrapping content from competitors. From E-commerce's point of view, Google acts as a gatekeeper for price comparison services since its search engine could be considered essential and could not be reasonably substituted, thus justifying its essentiality.

Both the General Superintendence (SG) and the Department of Economic Studies (DEE) examined Google's dominant position. They considered generic search engines and price comparison services as distinct and vertically integrated markets, with the latter being dependent on the former. 19 The SG and DEE stated that that Google held a dominant position in the generic search engine market, but faced competition on the advertising side of the market. Nevertheless, this would not prevent Google from reducing the quality of Google Search, given its position on the users' side and the presence of barriers to entry, such as (i) network effects, (ii) data-related barriers, and (iii) users' inertial behavior.<sup>20</sup>

The Reporting Commissioner, Mauricio Maia, divided its investigation into six categories: (i) exclusionary practices, (ii) tying (iii) predatory innovation, (iv) privileged positioning, (v) lack of transparency and misleading advertising, and (vi) lack of transparency in its algorithms. The alleged practices were related to Google Search's Product Universal and Product Listing Ads (PLA) services. Product Universal, launched in the USA in 2007 and in Brazil in 2011, allowed for the comparison and ranking of generic and vertical search results. It enabled products to appear on the generic search results page with images, links, and prices. On the other hand, PLA, an advertising service introduced in the USA in 2010, displayed ads alongside generic search results, featuring images, seller names, and prices. In Brazil, Product Universal was discontinued in 2012 and replaced by PLA, which required sellers to pay a fee

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<sup>&</sup>lt;sup>19</sup> BRAZIL. MINISTRY OF JUSTICE. CADE. Administrative process nº 08012.010483/2011-94. Anexo à Nota Técnica nº 51/2018/CGAA2/SGA1/SG/CADE (SEI nº 0549836).

<sup>&</sup>lt;sup>20</sup> BRAZIL. MINISTRY OF JUSTICE. CADE. Administrative process n° 08012.010483/2011-94. Anexo à Nota Técnica nº 34/DEE/CADE (SEI nº 0549416).



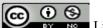
to have their products featured on the search results page.<sup>21</sup> CADE examined anticompetitive practices related to both the Product Universal and PLA services.

When discussing exclusionary practices, commissioner Maia investigated whether Google Search could be considered an essential facility for price comparison services and therefore, unlawfully blocking access to it. As mentioned earlier, for the Essential Facility Doctrine (EFD) to apply, the duplication of the facility must be unfeasible or unreasonable. Commissioner Maia stated that the investigated company must: (i) control access to the essential facility, thereby monopolizing it (or having close to a monopoly) for a long-term period; and (ii) such control must hinder vertically related firms from competing effectively.

Commissioner Maia concluded that Google does not hold an essential facility, despite its market share. The commissioner investigated whether three features could be considered essential facilities: ads with pictures and sub-links; the first page of search results; and data. It was concluded that they were not. His decision rested on the following arguments. Firstly, when considering advertising as a distinct market, separate from price comparison services, there is substitutability without vertical integration. Secondly, the first page of search results cannot be an essential facility due to limited display capacity and personalized variations and consumers have direct access to price comparison websites and alternative search engines. Finally, while Google possesses significant user data and there are data-related barriers, the reporting commissioner concluded that price comparison services can function effectively without personal data and as it is non-rival and non-exclusive, is readily available from various sources and quickly becomes outdated. Based on Commissioner Maia's interpretations, none of the three services were deemed essential facilities, and therefore, the EFD would not be applicable.

The case proceeded to investigate the effects on competition, despite not falling under the Essential Facilities Doctrine (EFD). Commissioner Maia examined two exclusionary practices: refusal to deal and discrimination, along with other mentioned practices. In summary, the debate focused on Google's ability to leverage its dominant position to promote Google Shopping. Maia investigated two perspectives: vertical foreclosure and tying. The first perspective investigated whether the company would potentially exploit its position in a

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<sup>&</sup>lt;sup>21</sup> BRAZIL. MINISTRY OF JUSTICE. CADE. Administrative process nº 08012.010483/2011-94. Commissioner Maurício Oscar Bandeira Maia Decision (SEI nº 0632170)



vertically integrated market to favor its own product and hinder competitors' access. The second perspective involved tying Google Search and Google Shopping.

After assessing the effects of these practices, Maia did not consider them anticompetitive and voted to dismiss the investigation. Analyzing all the alleged practices, he argued that: (i) the presence of price comparison services on the first page of Google Search results did not decrease after the introduction of Product Universal and PLAs (which differs from similar investigations in France and Spain), indicating no intentional manipulation of algorithms; (ii) there was no decrease in traffic from Google Search to price comparison services; (iii) there was no raise in rivals' costs through a rise in cost per click; (iv) Google Shopping charging for ads was not considered anticompetitive, as other E-Commerce platforms followed a similar practice; (v) restricting the number of results in Google Shopping was not deemed anticompetitive, as it aligns with Google's ad-based business model; (vi) the reduction in the number of players in the price comparison services market from 5 to 3 during the investigation was not attributed to Google's actions.

Although the decision was far from unanimous, CADE's Administrative Tribunal ultimately sided with Commissioner Maia's position. The Tribunal President cast the deciding vote to settle the decision. The commissioners who held different opinions from Commissioner Maia were Paula Farani Silveira, Paulo Burnier and João Paulo Resende.

Commissioner Burnier stated that the potential negative effects were sufficient to consider the practice as anticompetitive, particularly in digital markets. Consequently, he proposed reversing the burden of proof. He also stated that, in this specific case, Google failed to substantiate how its alleged innovation efficiencies would counterbalance the potential anticompetitive effects.<sup>22</sup>

Commissioner Resende contended that Google's substantial market share in one market (general search) was tipping the competition in the price comparison search market. Thus, he considered it an antitrust violation. While Google was not a monopolist in the general search market, its behavior in this market was affecting consumers in other markets. In a sense,

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<sup>&</sup>lt;sup>22</sup> BRAZIL. MINISTRY OF JUSTICE. CADE. Administrative process nº 08012.010483/2011-94. Commissioner Paulo Burnier Decision (SEI nº 0632417)



Commissioner Resende's view is that the 'essentiality' does not require monopolization to generate effects.<sup>23</sup>

Commissioner Silveira considered that Google's conduct was anticompetitive and constituted an antitrust violation. In her argumentation, she emphasized that Google maintained a clear dominant position, supported by network externalities, lock-in effects, and economies of scale and scope. This dominant position was being leveraged to gain market power, discriminate against competitors, and cause harm to consumers. Thus, she disagreed with Commissioner Maia regarding the identification and substantiation of competitive harm. It is important to note that Commissioner Silveira explicitly highlighted that the existence of competitive harm does not require the presence of essential facilities. Her report serves as an illustrative example of how a theory of harm applicable to digital platform markets can be outlined without resorting to the essential facilities doctrine.<sup>24</sup>

As discussed by Fernandes (2021, pp. 303-312), the divergence between the commissioners reflected a dilemma in the application of antitrust policies in the repression of unilateral conditions in the digital platform market. The application of the EFD offered a more direct way to consider that practices such as self-preferencing should be considered anticompetitive, unless the company that implements it demonstrates an efficiency justification and the absence of anticompetitive effects. However, if the platforms are not considered essential facilities, two options arise: (i) using the theory of harm generally applied in cases of tying and raising rivals' costs, which places the obligation on the antitrust authority to demonstrate the anticompetitive effect and consumer harm; or (ii) consider that the internet gatekeeper position of some platforms justifies the application of a different theory of harm, in which the burden of proving the absence of anticompetitive effects is allocated to the defendant. The challenge for this second alternative lies in specifying more clearly the underlying economic reasoning of this alternative theory of harm, differentiating it from EFD and exempting it from the need to assume a form of 'essentiality'. This is an open topic, to be clarified with the advancement of research and debates in the area.

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<sup>&</sup>lt;sup>23</sup> BRAZIL. MINISTRY OF JUSTICE. CADE. Administrative process n° 08012.010483/2011-94. Commissioner João Paulo de Resende Decision (SEI nº 0632473)

<sup>&</sup>lt;sup>24</sup> BRAZIL. MINISTRY OF JUSTICE. CADE. Administrative process nº 08012.010483/2011-94. Commissioner Paula Farani de Azevedo Silveira Decision (SEI nº 0644436)



### CONCLUDING REMARKS

As discussed throughout the paper, the applicability of EFD to digital markets is far from straightforward or automatic, and it does not provide a single standard of proof for investigating cases of refusal to deal. This applicability depends, to some extent, on a theory of harm that EFD shares with the more general antitrust approach to anticompetitive behavior, as illustrated by the debate between the leverage hypothesis and the single monopoly theory in tying cases. Furthermore, the applicability of EFD also depends on specific conditions that indicate the presence of a bottleneck.

Therefore, it is necessary to make an analytical distinction between two aspects. Firstly, the conditions that determine the essentiality or indispensability of access to an input, and secondly, the mechanism by which a company exploits its market power in adjacent markets. This distinction acknowledges that EFD relies on the same mechanism of harm generation presumed in investigations of tying arrangements or discriminatory practices that raise rivals' costs, but it critically depends on the conditions related to the essentiality or indispensability of the input controlled by monopolistic companies. When the essentiality or indispensability of the input can be assumed, two important implications arise: (i) from an antitrust perspective, it may justify placing the burden of proof on the defendant, who must justify the refusal to deal or the discriminatory conduct by demonstrating the absence of anticompetitive effects; (ii) it opens up the possibility of discussing alternative solutions to antitrust intervention, such as the introduction of direct regulation of access conditions.

So, within a range of possibilities of exclusionary conduct, EFD could be considered a special case in which: (i) the control of access to the input/resource considered essential is very high (monopoly or quasi-monopoly) and lasting; and (ii) the effect on the competitiveness of companies that are denied access is exclusionary, in the sense that they do not have effective opportunities to compete. Once these conditions are verified, the antitrust authority does not have to make a detailed analysis of each specific exclusionary practice, but rather act based on the premise that the risk of competitive damage is high enough to establish ex ante the need to guarantee non-discriminatory access. Authors such as Guggenberger (2021a, 2021b) have argued that these conditions are present on digital platforms (Google, Amazon,







Apple/Android). This may justify arguments for ex ante regulation, in the same vein as the general support for ex-ante regulation in the previous century.

The post-Chicago literature demonstrates that in various situations, if a dominant firm controls (wholly or partially) an input or resource that is significant to the competitiveness of its rivals, it can utilize this control to limit competition in adjacent markets. This theory of harm applies to a wide range of behaviors such as tying, refusal to deal, raising rivals' costs, and price squeeze. It effectively replaces the original notion of leverage, which was formulated in a simplistic and arguably naive manner.

However, there is still a need to further develop criteria that enable the identification of essentiality thresholds justifying the application of EFD. Particularly in dynamic and innovative markets, the question extends beyond the mere importance of an input to considering how this essentiality can be considered lasting or permanent. In other words, what is the likelihood that the competitive process itself generates innovations that alleviate a given bottleneck? This is crucial not only to avoid unnecessary application of EFD but also to prevent regulatory interventions that discourage potentially innovative solutions capable of creating alternative sources for previously essential inputs.

Lastly, it is important to note that the application of theories of harm associated with the EFD to digital markets, as examined in this paper, does not preclude arguments for intervention or regulation of dominant firms in digital markets based on other justifications. However, the focus of this paper was not on that specific debate. Although we acknowledge the significance of discussing the reasonableness of intervention or regulation in digital markets and conducting a thorough analysis of the associated costs and benefits, such considerations lie beyond the scope of this paper. Therefore, we regard this as an area that warrants future research and exploration.

### REFERENCES

BALLON, P.; EVENS, T. The Platformisation of the Audiovisual Industry. Proceedings of World Media Economics and Management Conference (WMEMC) 'Contemporary Media Industries -Geographical Issues', May 12-16, 2014, Rio de Janeiro, Brazil.

BERNHEIM, B. D.; HEEB, R. A framework for the economic analysis of exclusionary conduct. In: BLAIR, R. D and SOKOL D. D. (Eds.). The Oxford Handbook of International Antitrust **Economics**, Oxford: Oxford University Press, p. 3-39, 2015.

BORK, R. H. The Antitrust Paradox: a Policy at War with Itself. New York: Basic Books, 1978.







BOURREAU, M.; DE STREEL, A. Digital conglomerates and EU competition policy. Available at SSRN 3350512, 2019.

BUSCH, C.; GRAEF, I.; HOFMANN, J.; GAWER, A. Uncovering blindspots in the policy debate on platform power. Berlin: European Comission, 2021. 31p

CARLTON, D. W.; WALDMAN, M. The strategic use of tying to preserve and create market power in evolving industries, **Rand Journal of Economics**, v. 33, p. 194–220, 2002.

CMA- Competition and Markets Authority-Online- Platforms and digital advertising- Market Study Final Report- CMA-Londres- 2019

COSER, L. Publishers as Gatekeepers of Ideas, The ANNALS of the American Academy of Political and Social Science, v. 421, n. 1, p14-22, 1975.

CRÉMER, J.; DE MONTJOYE, Y.; SCHWEITZER, H. Competition Policy for the Digital Era. Brussels: European Commission Final Report, 2019.

DUNNE, N. Dispensing with Indispensability. Journal of Competition Law and Economics, v. 16, n. (1),p. 71-113, 2020

EUROPEAN COMISSION (EU) Communication from the Commission — Guidance on the Commission's enforcement priorities in applying Article 82 of the EC Treaty to abusive exclusionary conduct by dominant undertakings Official Journal of the European Union C 45/19, 2009.

FERNANDES, V. O. Plataformas digitais entre abuso de posição dominante e inovação: perspectivas a partir das teorias de concorrência dinâmica do antitruste. 2021. Thesis (Doctorate in Commercial Law) – Faculdade de Direito, Universidade de São Paulo, São Paulo, 2021.

GOLOVANOVA S.; RIBEIRO, E. P. Multisided Platform Analysis and Competition Law Enforcement Practice in Brics Countries, Journal of Competition Law and Economics, 18(3), p. 730-769, 2022.

GRAEF, I. Rethinking the Essential Facilities Doctrine for the EU Digital Economy. La Revue Juridique Thémis de l'Université de Montréal, vol. 53, n. 1, p. 33-72, 2020,

GUGGENBERGER, N. Essential Platforms Stanford Technology Law Review, v.24, n. 2, p. 237-258, 2021a.

GUGGENBERGER, N. The Essential Facilities Doctrine in the Digital Economy: dispelling persistent myths Yale Journal of Law & Technology, v. 23, p. 301-359, 2021b.

INTERNATIONAL COMPETITION NETWORK (ICN). Survey Report on Vertical Mergers. Merger Working Group. ICN New Delhi Congress. 2018

KRATTENMAKER, T. G.; SALOP, S. C. Anticompetitive exclusion: Raising rivals' costs to achieve power over price. Yale Law Journal, v. 96, p. 209-93, 1986.

LAFFONT, J.; TIROLE, J. Competition in telecommunications, Cambridge: MIT Press, 2001 LANCIERI, F.; SAKOWSKI, P., Competition in Digital Markets: A Review of Expert Reports, Stanford Journal of Law, Business & Finance, v. 65, p. 26-89 2021.

LIANOS, I.; SMICHOWSKI, B. Economic Power and New Business Models in Competition Law and Economics: Ontology and New Metrics. Available at SSRN 3818943, 2021.

NICOLETTI, G.; VITALE, C.; ABATE, C. Competition, regulation and growth in a digitized world: Dealing with emerging competition issues in digital markets, OECD Economics Department Working Papers, No. 1752, OECD Publishing, Paris, 2023. Available at: https://doi.org/10.1787/1b143a37-en.

OECD Policy Roundtables, The Essential Facility Concept, OCDE/GD(96)113, 1996.

PITOFSKY, R.; PATTERSON, D.; HOOKS, J. The Essential Facility Doctrine Under US Antitrust Law, **Antitrust Law Journal**, v. 70, n. 2, p. 443-462, 2002.

REYMÃO, A. E. N.; OLIVEIRA, L. A.; KOURY, S. E. C. O caso google shopping: análise comparativa entre as recentes decisões proferidas na europa e no brasil, Revista de Direito, Economia e Desenvolvimento Sustentável, v. 8, n. 1, 2022

SALOP, S. C.; SCHEFFMAN, D. T. Raising rivals' costs, The American Economic Review, v. 73, n. 2, p. 267-271, 1983.





SCHMALENSEE, R. Antitrust issues in Schumpeterian industries. The American Economic **Review**, v. 90, n. 2, p. 192-196, 2000.

SCHWEITZER, H. et al, A new competition framework for the digital economy Report by the Commission 'Competition Law 4.0, Berlin: Federal Ministry For Economic Affairs and Energy, 2019.

SILVEIRA, Paulo B.; FERNANDES, V. Google Shopping in Brazil: Highlights of CADE's Decision and Takeaways for Digital Economy Issues. Concurrences e-Bulletin, 2019

STIGLER CENTER - Stigler Committee on Digital Platforms, Final Report. Chicago: Stigler Center ,2019.

WHINSTON, M. D. Tying, Foreclosure, and Exclusion, The American Economic Review, v. 80, n. 4, p. 837-59, 1990.

WHINSTON, M. D. Exclusivity and tying in US v. Microsoft: what we know, and don't know, Journal of Economic perspectives, v. 15, n. 2, p. 63-80, 2001.

## Sobre os(as) autores(as):

### Camila Cabral Pires-Alves E-mail: camila.alves@ie.ufrj.br

Associate Professor of Economics, Institute of Economics, Federal University of Rio de Janeiro (UFRJ). Acted as Chief Economist and Deputy Chief Economist at CADE. PhD and Master's degree in Economics at UFRJ. Currently is coordinator of the GDEC Research Group (Research Group in Law, Economics, and Competition www.ie.ufrj.br/gdec) and Director of Graduate Studies at Institute of Economics (UFRJ).

## Diandra Carolina da Rocha | E-mail: diandra.rocha@ppge.ie.ufrj.br

PhD Candidate in Economics at the Institute of Economics, Federal University of Rio de Janeiro. Master in Public Policy, Strategy and Development from the Federal University of Rio de Janeiro (2020). She holds a degree in Economics from the Federal University of Rio de Janeiro. Reseacher of the GDEC Research Group (Research Group in Law, Economics, and Competition, www.ie.ufrj.br/gdec).

### **Eduardo Pontual Ribeiro** | *E-mail:* eribeiro@ie.ufrj.br

Professor of Economics, Institute of Economics, Federal University of Rio de Janeiro. Acted as Commissioner at the CADE Tribunal. PhD in Economics from the University of Illinois at Urbana-Champaign and B.A. (Bacharel) in Economics at UFPE. CNPq Researcher. Currently is deputy coordinator of the GDEC Research Group (Research Group in Law, Economics, and Competition, <a href="www.ie.ufrj.br/gdec">www.ie.ufrj.br/gdec</a>).

## João Luiz Pondé | E-mail: ponde@ie.ufrj.br

Professor of Economics, Institute of Economics, Federal University of Rio de Janeiro. Master and PhD in Economics from UNICAMP and B.A. (Bacharel) in Economics at UFBA. Researcher of the GDEC Research Group (Research Group in Law, Economics, and





Competition, <a href="www.ie.ufrj.br/gdec">www.ie.ufrj.br/gdec</a>).

### Luiz Carlos Delorme Prado | E-mail: lcdprado@gmail.com

Professor of Economics, Institute of Economics, Universidade Federal do Rio de Janeiro, Msc in Production Engineering, COPEE-UFRJ, B.A in Law and Economics. Former Commissioner at CADE - Conselho Administrativo em Defesa Econômica, Coordinator of PPED - Graduate Program of Public Policy Strategy and Development, Researcher at GDEC.(Research Group in Law, Economics, and Competition, www.ie.ufrj.br/gdec)

## Marcos Puccioni de Oliveira Lyra | E-mail: marcoslyra@id.uff.br

Assistant Professor of Economics, Department of Economics, Fluminense Federal University. PhD and Master's in Economics from the Federal University of Rio de Janeiro and B.A. (Bacharel) in Economics from the Federal University of Rio de Janeiro. Researcher at GDEC (Research Group in Law, Economics, and Competition, www.ie.ufrj.br/gdec) and NIETI (Industrial Economics, Innovation, Territory and Energy Study Group – Fluminense Federal University).

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