Yixi (Cecilia) Cheng U.S. Department of Justice Antitrust Division 950 Pennsylvania Ave NW, #3224 Washington, DC 20530 Telephone: 202-705-8342 Email: yixi.cheng@usdoj.gov

## UNITED STATES DISTRICT COURT DISTRICT OF NEW JERSEY

KAREN CORNISH-ADEBIYI, et al.,

Plaintiffs,

# HON. KAREN M. WILLIAMS

v.

CAESARS ENTERTAINMENT, INC., et al.,

Civil Action No. 1:23-cv-02536-KMW-EAP

Defendants.

# STATEMENT OF INTEREST OF THE UNITED STATES

# INTRODUCTION

The United States, through the U.S. Department of Justice and the Federal

Trade Commission ("FTC"), respectfully submits this Statement of Interest

pursuant to 28 U.S.C. § 517, which permits the Department of Justice "to attend to

the interests of the United States" in any case pending in federal court. Both the

Antitrust Division of the U.S. Department of Justice and the FTC enforce the

federal antitrust laws, including the Sherman Act, 15 U.S.C. §§ 1 *et seq.*, and have a strong interest in their correct application.

In this case, plaintiffs allege that competing casino hotels violated Section 1 of the Sherman Act, 15 U.S.C. § 1, by, among other things, unlawfully agreeing "to use the Rainmaker [pricing algorithm] platform to set prices while knowing and precisely because all other Casino-Hotel Defendants had agreed to do the same." Consolidated Amended Class Action Complaint ("CAC"), ECF No. 80, ¶ 229. Defendants have moved to dismiss the amended complaint. Joint Memorandum of Law in Support of Defendants' Motion to Dismiss, ECF No. 89-1 ("Mot.").

Judicial treatment of the use of algorithms in price fixing has tremendous practical importance. Accordingly, in two other cases, the United States has submitted Statements of Interest addressing the correct principles of law relevant to assessing allegations of algorithmic price fixing: (1) the United States' Statement of Interest and accompanying Memorandum of Law (jointly, "Statement of Interest") in *In re RealPage, Inc., Rental Software Antitrust Litig.*, No. 3:23-MD-3071 (M.D. Tenn. Nov. 15, 2023), ECF Nos. 627, 628, attached hereto as Attachments A and B; and (2) the United States' Statement of Interest in *Duffy v. Yardi*, No. 2:23-cv-01391 (W.D. Wa. March 1, 2024), ECF No. 149, attached hereto as Attachment C.

The United States submits this Statement of Interest to summarize the applicable legal principles for claims of algorithmic price fixing and to address two legal errors that defendants appear to make in their motion to dismiss: (1)

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defendants' suggestion that plaintiffs must identify direct "communication[s] between Casino-Hotel Defendants" to plausibly allege an agreement subject to Section 1 scrutiny, Mot. 3 (emphasis added); see also Mot. 10, 34; and (2) defendants' argument that plaintiffs' price-fixing claim must be dismissed because the recommendations generated by Rainmaker's pricing algorithm are not binding, Mot. 19-21, 36-37 & 37 n.10.

Neither position is supportable. Although direct communications among competitors can establish an agreement among them, there is no rule requiring proof of such communications. Section 1 reaches tacit as well as express agreements, and it prohibits competitors from delegating key aspects of pricing decisionmaking to a common entity, even if the competitors never communicate with each other directly. In addition, an agreement among competitors to fix the *starting point* of pricing is per se unlawful, no matter what prices the competitors ultimately charge.

#### ARGUMENT

There are two central elements of a Section 1 claim: (1) a "contract, combination, or conspiracy," 15 U.S.C. § 1—i.e., "concerted action"—(2) that "unreasonably restrains trade." *Am. Needle, Inc. v. NFL*, 560 U.S. 183, 186, 195 (2010); *In re Flat Glass Antitrust Litig.*, 385 F.3d 350, 357 (3d Cir. 2004). As discussed in more detail in the United States' Statements of Interest in *In re RealPage* and *Yardi*, algorithmic price fixing is a per se violation of Section 1. *See* Attachments B, C. Defendants do not dispute that proposition, but their motion to dismiss can be read to advance two incorrect legal arguments regarding the application of the per se rule. We first summarize the appropriate legal framework for analyzing algorithmic price-fixing claims and then address defendants' erroneous arguments.

#### I. Algorithmic Price Fixing Is a Per Se Violation of Section 1

(1) As to the first central element of a Section 1 claim, concerted action exists whenever "separate decisionmakers" are "join[ed] together," thus "depriv[ing] the marketplace of independent centers of decisionmaking." Attachment B at 5-8 (citing Am. Needle, 560 U.S. at 195, and other sources). While concerted action encompasses contracts, combinations, and conspiracies, courts often use the shorthand "agreement" to describe the alternatives collectively. Id. But "[n]o formal agreement is necessary" under Section 1. Am. Tobacco Co. v. United States, 328 U.S. 781, 809 (1946). An agreement can be express—written or spoken—or tacit, whereby "the conspirators' actions . . . indicate [its] existence," White v. R.M. Packer Co., 635 F.3d 571, 575-76 (1st Cir. 2011). See Attachment B at 5-8; see also United States v. Heatherly, 985 F.3d 254, 262 (3d Cir. 2021) ("A conspiracy does not require an express agreement. A 'tacit agreement' is enough. People can tacitly agree when they 'engage[] as a group' to achieve 'a common goal.") (quoting United States v. Smith, 294 F.3d 473, 478 (3d Cir. 2002)); United States v. Barr, 963 F.2d 641, 650 (3d Cir. 1992) ("It is well settled that a written or spoken agreement among alleged co-conspirators is unnecessary; rather, indirect evidence of [a] mere tacit understanding will suffice.") (cleaned up). Concerted action can take many

different forms, including competitors' jointly delegating key aspects of decisionmaking to a common entity, such as an algorithm provider. Attachment B at 5-8 (citing *Am. Needle*, 560 U.S. at 204; *Relevent Sports, LLC v. U.S. Soccer Fed'n, Inc.*, 61 F.4th 299, 309 (2d Cir. 2023); and *E. R. R. Presidents Conf. v. Noerr Motor Freight, Inc.*, 365 U.S. 127, 136-37 (1961)).

Due in part to the many different forms concerted action can take, there are various ways of alleging and proving it. Attachment B at 8-12. While courts frequently look for allegations and evidence of parallel conduct and so-called "plus factors" to prove the existence of an agreement circumstantially, those indicia are not always required to show the existence of concerted action. Id. For instance, as the Supreme Court held in Interstate Circuit v. United States, 306 U.S. 208 (1939), a tacit agreement can be inferred from an invitation proposing collective action followed by a course of conduct showing acceptance: "It was enough that, knowing that concerted action was contemplated and invited, the [competitors] gave their adherence to the scheme and participated in it." Id. at 226-27; Attachment B at 10-12 (citing cases applying Interstate Circuit); see also United States v. Gen. Motors *Corp.*, 384 U.S. 127, 142-43 (1966) ("[I]t has long been settled that explicit agreement is not a necessary part of a Sherman Act conspiracy—certainly not where, as here, joint and collaborative action was pervasive in the initiation, execution, and fulfillment of the plan.").

The Third Circuit and other courts in this district have recognized that Interstate Circuit remains good law. See In re Ins. Brokerage Antitrust Litig., 618

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F.3d 300, 332 (3d Cir. 2010) (considering whether defendants' decisions "presuppose concerted action" under Interstate Circuit); Ball v. Paramount Pictures, 169 F.2d 317, 319 (3d Cir. 1948) (applying Interstate Circuit's tacit-agreement theory); Viking Theatre Corp. v. Paramount Film Distrib. Corp., 320 F.2d 285, 293 (3d Cir. 1963) (similar), aff'd, 378 U.S. 123 (1964); United States v. CIBA GEIGY Corp., 508 F. Supp. 1118, 1148 (D.N.J. 1976) (assessing whether, under Interstate Circuit, a defendant "proposed a common scheme" inviting participation in a common enterprise); Sheldon Pontiac v. Pontiac Motor Div., Gen. Motors Corp., 418 F. Supp. 1024, 1029 (D.N.J. 1976) (citing Interstate Circuit to explain that "a claimant in a Sherman Act case may prevail without producing an express agreement between the alleged conspirators"), aff'd, 566 F.2d 1170 (3d Cir. 1977).

(2) As to the second central element of a Section 1 claim (unreasonableness), longstanding Supreme Court precedent establishes that price-fixing agreements among actual or potential competitors—i.e., horizontal price-fixing agreements<sup>1</sup>— are "all banned" whatever their form. United States v. Socony-Vacuum Oil Co., 310 U.S. 150, 224 n.59 (1940). Per se unlawful price fixing includes not only competitors' acting in concert to set the same price at which a product is bought or sold but also competitors' acting in concert to "rais[e], depress[], ... peg[], or

<sup>&</sup>lt;sup>1</sup> Horizontal restraints stand in contrast to vertical restraints, which involve situations where "firms at different levels of distribution" agree on matters over which they do not compete—such as a manufacturer's setting the terms for the distribution or sale of its own products. *Bus. Elecs. Corp. v. Sharp Elecs. Corp.*, 485 U.S. 717, 730 (1988). *See* Attachment B at 16 (providing additional explanation of this distinction).

stabiliz[e] the price of a commodity." *Id.* at 223. This prohibition includes agreements to use the same pricing formula—analogous to agreements to use the same pricing algorithm. *Id.* at 224-226 n.59 (condemning as per se unlawful agreement to use the same "formula underlying price policies"); *Citizen Publ'g Co. v. United States*, 394 U.S. 131, 133-36 (1969) (finding per se unlawful the collective delegation of pricing decisions to a joint entity); *see* Attachment B at 17-20.

It is not necessary for conspirators always to adhere to pricing recommendations for a challenged price-fixing scheme to be per se unlawful. Attachment C at 3-4, 6-7 (citing cases and authorities). Courts including the Third Circuit have explained that, just as competitors cannot agree to fix their *final* prices, competitors cannot agree to fix the *starting point* for pricing; both types of agreements corrupt the decentralized price-setting mechanism in the market, whether or not they ultimately succeed in raising or stabilizing prices. *Id.* at 4-5 (citing cases holding that it is per se illegal for competitors to fix advertised list prices or sticker prices, even if consumers do not ultimately pay those prices); *Flat Glass*, 385 F.3d at 362-63 ("An agreement to fix prices is . . . a per se violation of the Sherman Act even if most or for that matter all transactions occurred at lower prices.") (quoting *In re High Fructose Corn Syrup Antitrust Litig.*, 295 F.3d 651, 656 (7th Cir. 2002)).

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## II. The Court Should Reject Defendants' Two Incorrect Limitations on the Application of the Per Se Rule

In their motion to dismiss, defendants appear to suggest that plaintiffs must allege competitor-to-competitor communications to plausibly allege an agreement subject to Section 1 scrutiny. Defendants also claim that because pricing recommendations generated by Rainmaker's algorithms are non-binding, defendants have not engaged in price fixing as a matter of law. Neither proposition is correct.

# A. No Legal Rule Requires Plaintiffs To Allege Competitor-To-Competitor Communications

(1) Communications among competitors can be highly probative of an agreement among them. See, e.g., Flat Glass, 385 F.3d at 369; Petruzzi's IGA Supermarkets, Inc. v. Darling-Delaware Co., 998 F.2d 1224, 1234 (3d Cir. 1993); United States v. Apple Inc., 952 F. Supp. 2d 638, 655-56, 673-74 (S.D.N.Y. 2013), aff'd, 791 F.3d 290 (2d Cir. 2015).

But there is no legal requirement that a plaintiff must allege specific communications directly among competitors merely to allege an agreement subject to Section 1. Simply put, "an actionable horizontal conspiracy does not require direct communication among the competitors." *Ins. Brokerage*, 618 F.3d at 331. This is so for two reasons. First, Section 1 is "broad enough" to "encompass a purely tacit agreement to fix prices." *High Fructose Corn Syrup*, 295 F.3d at 654 (7th Cir. 2002); *see also Bell Atl. Corp. v. Twombly*, 550 U.S. 544, 553 (2007) ("tacit" agreements qualify).<sup>2</sup> Thus, proof of conspiracy could be based on actions alone. Second, courts have repeatedly inferred horizontal agreements among competitors based on communications to (or passed through) an organizer or other intermediary. *See* Attachment B at 9-12, 19-21 (citing cases, including *Interstate Circuit*).<sup>3</sup>

Even assuming *arguendo* that competitor-to-competitor communications may be necessary to render allegations of concerted action plausible in some cases, this would not be one of them. The alleged purpose of the hotel pricing algorithm is to act as a "shared pricing agent for all the Casino-Hotel Defendants," CAC ¶ 9, and hence to make such communications unnecessary; that is, the competitors can more efficiently communicate with the algorithm provider instead of communicating directly with multiple competitors. So long as the algorithm provider and its competitor clients are connected through this common agent in "a unity of purpose or a common design and understanding," *Lifewatch Servs. Inc. v. Highmark Inc.*, 902 F.3d 323, 333 (3d Cir. 2018), they are acting in concert. *Cf. Ins. Brokerage*, 618 F.3d at 337 (recognizing that a Section 1 conspiracy can "depend]] upon the

<sup>&</sup>lt;sup>2</sup> Concerted action encompasses a "tacit agreement," *Twombly*, 550 U.S. at 553, but not conscious parallelism (sometimes called "tacit collusion"), which refers to a particular type of interdependent action that sometimes occurs in oligopolistic markets, *see Brooke Group Ltd. v. Brown & Williamson Tobacco Corp.*, 509 U.S. 209, 227 (1993).

<sup>&</sup>lt;sup>3</sup> See also, e.g., United States v. Masonite Corp., 316 U.S. 265, 274-76 (1942) (involving bilateral settlement contracts between competitor and licensor); Meyer v. Kalanick, 174 F. Supp. 3d 817, 824-25 (S.D.N.Y. 2016) (involving Uber's Driver Terms contract between drivers and the Uber application)); Toys "R" Us, Inc. v. FTC, 221 F.3d 928, 932 (7th Cir. 2000) (finding unlawful agreement among manufacturers where retailer Toys "R" Us communicated assurances "from manufacturer to competing manufacturer" that each was complying with a proposed boycott).

participation of a 'middle-man', even if that middleman conceptualized the conspiracy, orchestrated it . . . and collected most of the booty.") (quoting *United States v. All Star Indus.*, 962 F.2d 465, 473 (5th Cir. 1992)).

(2) Defendants' emphasis on plus factors does not provide a sound basis for requiring evidence of competitor-to-competitor communications either. See Mot. 1-12, 16-33. When plaintiffs base their allegations of an agreement on parallel conduct by the defendants, looking for "plus factors" can be a helpful way to evaluate whether that conduct stems from concerted action instead of independent action. Attachment B at 8-12. But alleging plus factors is unnecessary when, as here, a common entity such as an algorithm provider proposes a common plan such that its invitation inherently contemplates concerted action—e.g., by inviting a group of competitors to jointly delegate key aspects of pricing decisionmaking to it. Id.; see, e.g., CAC ¶¶ 18, 172, 220, 224, 314, 357, 360-61; Plaintiffs' Opposition to Defendants' Motion to Dismiss, ECF No. 92 at 14 (asserting that the casino-hotel defendants "accepted Rainmaker's anticompetitive invitation [to fix prices] through words and deeds").

In any event, even under a plus-factors approach, there is no legal rule requiring allegations of communications among competitors. To survive dismissal under that approach, plaintiffs "must allege facts that, if true, would establish at least one 'plus factor." *Ins. Brokerage*, 618 F.3d at 322-23. While communications among competitors are one example of a plus factor, *Flat Glass*, 385 F.3d at 364-68, the Third Circuit has noted that an agreement can be proved by showing that

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defendants "adopted a common plan even though no meetings, conversations, or exchanged documents are shown," id. at 361 (emphasis added), and has held that other plus factors are sufficient to state a Section 1 claim. For instance, in *Lifewatch*, the Third Circuit held that a seller of telemetry monitors plausibly alleged that Blue Cross Blue Shield Association and five of its member insurance plan administrators conspired to deny coverage of telemetry monitors without relying on competitor-to-competitor communications. The court reached its conclusion in part based on plaintiff's allegations of an "auditing mechanism" that Blue Cross used to enforce the plan administrators' compliance with a model policy to deny coverage for telemetry monitors, "a particular time when a [member insurance plan administrator] declined to cover telemetry monitors due to pressure" from the association and its member administrators, and "the improbability that the same coverage decision would be reached by nearly all the [competitors] independently." 902 F.3d at 335. The "agreement and enforcement mechanism pled" in that case "provide[d] the 'reasonably founded hope that the [discovery] process will reveal relevant evidence." Id.

Similarly, in *Deborah Heart & Lung Ctr. v. Penn Presbyterian Med. Ctr.*, Civ. No. 11-1290 RMB KMW, 2012 WL 1390249 (D.N.J. Apr. 19, 2012), a hospital alleged that certain medical centers conspired under Section 1 to exclude a competing cardiac provider by transferring patients exclusively to themselves. The court accepted allegations of "(1) a large shift in patient transfers, inuring to the [defendants'] benefit, consistent with the alleged agreement; (2) that that shift was

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made in spite of increased medical risks and costs; and (3) coercive conduct by the [defendants'] alleged co-conspirators, in the face of contrary legal obligations, in enforcement of the alleged agreement" as sufficient to "place[] the allegations of parallel conduct 'in a context that raises a suggestion of a preceding agreement." *Id.* at \*3.

For these reasons, to the extent defendants are arguing that competitor-tocompetitor communications are required to plead concerted action, their position lacks legal support. Such a requirement would also make little practical sense at the pleading stage because plaintiffs rarely have access to competitor-to-competitor communications before discovery. Imposing such a requirement could pose an insuperable bar to recovery.

# B. Fixing the Starting Point of Prices is Per Se Illegal, Even If Ultimate Prices May Deviate.

Finally, defendants mistakenly claim that, because Rainmaker's recommendations are non-binding, the challenged conduct is not per se unlawful price fixing. Mot. 19-21, 36-37 & 37 n.10. This is inconsistent with Section 1 precedent holding that it is per se illegal to fix list or sticker prices, even where the ultimate prices charged are different. *See* Attachment C at 4-6. Such agreements are banned because "[a]ny combination which tampers with price structures ... directly interfer[es] with the free play of market forces." *Socony-Vacuum*, 310 U.S. at 221; *see* Attachment C at 4. Defendants' position also is inconsistent with case law stating that the violation is the agreement—not how often it is followed, *id.* at 6-7; p. 7, *supra*. Indeed, under defendants' view of the law, a price-fixing cartel

could evade per se treatment simply by inviting participation by some competitors

who tend to deviate from the fixed prices or by agreeing to allow some deviation.

For these reasons, this Court should reject defendants' attempt to narrow the

definition of price fixing.

Dated: Washington DC March 28, 2024 Respectfully submitted,

HENRY LIU Director, Bureau of Competition

LAURA ALEXANDER Deputy Director, Bureau of Competition

LEIGH BARNWELL KENNETH H. MERBER ERIC ZEPP Attorneys, Bureau of Competition

ANISHA DASGUPTA General Counsel

Federal Trade Commission 600 Pennsylvania Avenue, NW Washington, DC 20580 Telephone: (202) 326-3573 JONATHAN S. KANTER Assistant Attorney General

DOHA G. MEKKI Principal Deputy Assistant Attorney General

ANDREW J. FORMAN Deputy Assistant Attorney General

DAVID B. LAWRENCE Policy Director

MARKUS BRAZILL Counsel to the Assistant Attorney General

DANIEL E. HAAR NICKOLAI G. LEVIN STRATTON C. STRAND *Attorneys* 

<u>s/Yixi (Cecilia) Cheng</u> YIXI (CECILIA) CHENG Attorney U.S. Department of Justice Antitrust Division 950 Pennsylvania Ave NW, #3224 Washington, DC 20530 Telephone: 202-705-8342

Email: yixi.cheng@usdoj.gov

PHILIP R. SELLINGER United States Attorney

<u>s/ Heather C. Costanzo</u> HEATHER C. COSTANZO Assistant United States Attorney

Counsel for the United States

## UNITED STATES DISTRICT COURT MIDDLE DISTRICT OF TENNESSEE NASHVILLE DIVISION

## IN RE: REALPAGE, RENTAL SOFTWARE ANTITRUST LITIGATION (NO. II)

Case No. 3:23-MD-3071

This Document Relates to: ALL CASES

Chief Judge Waverly D. Crenshaw, Jr.

#### **STATEMENT OF INTEREST OF THE UNITED STATES**

The United States submits this statement and the accompanying Memorandum of Law in Support pursuant to Doc. No. 602 (Order on United States' Notice of Potential Participation) and 28 U.S.C. § 517, which permits the Department of Justice "to attend to the interests of the United States" in any case pending in federal court. The United States enforces the federal antitrust laws, including the Sherman Act, 15 U.S.C. §§ 1 *et seq.*, and has a strong interest in their correct application.

Section 1 of the Sherman Act prohibits "[e]very contract, combination in the form of trust or otherwise, or conspiracy" that unreasonably restrains trade. 15 U.S.C. § 1; *NCAA v. Bd. of Regents of Univ. of Oklahoma*, 468 U.S. 85, 98 (1984). Under the statute, it is per se unlawful for competitors to join together their independent decision-making power to raise, depress, fix, peg, or stabilize prices. *United States v. Socony-Vacuum Oil Co.*, 310 U.S. 150, 223-24 & n.59 (1940). And the Supreme Court has made clear that "the machinery employed by a combination for price-fixing is immaterial." *Id.* at 223.

This case involves the use of algorithms by competitors in allegedly fixing prices. Judicial treatment of these types of allegations has tremendous practical importance. As technology has developed in the 133 years since the Sherman Act created a federal prohibition on price fixing, firms have evolved the mechanisms they use for reaching unlawful price-fixing agreements. In-person handshakes gave way to phone and fax, and later to email. Algorithms are the new frontier. And, given the amount of information an algorithm can access and digest, this new frontier poses an even greater anticompetitive threat than the last.

As with other actions taken in concert, competitors' joint use of common algorithms can remove independent decision making. Algorithmic price fixing must therefore be subject to the same condemnation as other price-fixing schemes. It makes no difference that prices are fixed through joint use of an algorithm instead of by a person, just as sharing information through an algorithmic service should be treated the same as sharing information through email, fax machine, or face-to-face conversation. Put another way, whether firms effectuate a price-fixing scheme through a software algorithm or through human-to-human interaction should be of no legal significance. Automating an anticompetitive scheme does not make it less anticompetitive.

The question in this case is whether the defendants have violated Section 1 of the Sherman Act by allegedly knowingly combining their sensitive, nonpublic pricing and supply information in an algorithm that they rely upon in making pricing decisions, with the knowledge and expectation that other competitors will do the same. Although not every use of an algorithm to set price qualifies as a per se violation of Section 1, taking the allegations set forth in the complaints as true, the alleged scheme meets the legal criteria for per se unlawful price fixing.

For the reasons set forth in the accompanying Memorandum of Law in Support, the pending motions to dismiss should be denied.

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Respectfully submitted,

JONATHAN S. KANTER Assistant Attorney General

DOHA G. MEKKI Principal Deputy Assistant Attorney General

MAGGIE GOODLANDER Deputy Assistant Attorney General

ANDREW J. FORMAN Deputy Assistant Attorney General

DAVID B. LAWRENCE Policy Director

JACOBUS VAN DER VEN Counsel to the Assistant Attorney General

DANIEL E. HAAR NICKOLAI G. LEVIN STRATTON C. STRAND

YIXI (CECILIA) CHENG Attorneys

<u>/s/ Yixi (Cecilia) Cheng</u> U.S. Department of Justice Antitrust Division 950 Pennsylvania Ave NW, #3224 Washington, DC 20530 Telephone: 202-705-8342 Email: yixi.cheng@usdoj.gov

Counsel for the United States of America

Dated: November 15, 2023

HENRY C. LEVENTIS United States Attorney Middle District of Tennessee

<u>/s/ Michael C. Tackeff</u> Michael C. Tackeff MICHAEL C. TACKEFF, B.P.R. #036953 Assistant United States Attorney 719 Church Street, Suite 3300 Nashville, TN 37203 Telephone: (615) 736-5151 Email: Michael.Tackeff@usdoj.gov

## **CERTIFICATE OF SERVICE**

I hereby certify that the foregoing document, which was filed with the Court through the CM/ECF system, will be sent electronically to all registered participants.

Dated: November 15, 2023

<u>/s/ Yixi (Cecilia) Cheng</u> YIXI (CECILIA) CHENG

## UNITED STATES DISTRICT COURT MIDDLE DISTRICT OF TENNESSEE NASHVILLE DIVISION

## IN RE: REALPAGE, RENTAL SOFTWARE ANTITRUST LITIGATION (NO. II)

Case No. 3:23-MD-3071

This Document Relates to: ALL CASES

Chief Judge Waverly D. Crenshaw, Jr.

#### <u>MEMORANDUM OF LAW IN SUPPORT OF THE</u> STATEMENT OF INTEREST OF THE UNITED STATES

JONATHAN S. KANTER Assistant Attorney General

DOHA G. MEKKI Principal Deputy Assistant Attorney General

MAGGIE GOODLANDER Deputy Assistant Attorney General

ANDREW J. FORMAN Deputy Assistant Attorney General

DAVID B. LAWRENCE *Policy Director* 

JACOBUS VAN DER VEN Counsel to the Assistant Attorney General

DANIEL E. HAAR NICKOLAI G. LEVIN STRATTON C. STRAND YIXI (CECILIA) CHENG *Attorneys* 

U.S. Department of Justice Antitrust Division 950 Pennsylvania Ave NW, #3224 Washington, DC 20530 Telephone: 202-705-8342 Email: yixi.cheng@usdoj.gov

Counsel for the United States of America

HENRY C. LEVENTIS United States Attorney

MICHAEL C. TACKEFF, B.P.R. #036953 Assistant United States Attorney

Middle District of Tennessee 719 Church Street, Suite 3300 Nashville, TN 37203 Telephone: (615) 736-5151 Email: michael.tackeff@usdoj.gov

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The United States respectfully submits this memorandum of law in support of its Statement of Interest.

#### BACKGROUND

1. Section 1 of the Sherman Act prohibits "[e]very contract, combination in the form of trust or otherwise, or conspiracy" that unreasonably restrains trade. 15 U.S.C. § 1; *NCAA v. Bd. of Regents of Univ. of Oklahoma*, 468 U.S. 85, 98 (1984). As the Supreme Court has reaffirmed, "[t]he Sherman Act was designed to be a comprehensive charter of economic liberty aimed at preserving free and unfettered competition as the rule of trade." *N. Pac. Ry. Co. v. United States*, 356 U.S. 1, 4 (1958).

Given this purpose, the "central evil" addressed by Section 1 of the Sherman Act is "the elimination of competition that would otherwise exist," including competition on prices. *Am. Needle, Inc. v. NFL*, 560 U.S. 183, 195 (2010) (citation omitted); *United States v. Socony-Vacuum Oil Co.*, 310 U.S. 150, 224 n.59 (1940). It is per se illegal for competitors to join together their independent decision-making power to raise, depress, fix, peg, or stabilize prices. *See Socony-Vacuum*, 310 U.S. at 223-24 & n.59.

As technology has evolved, so too have methods of price fixing. In 1890, a price-fixing conspiracy might have manifested with a formal handshake in a clandestine meeting. The proliferation of fax machines, emails, text messages, and inter-company chat platforms has presented new means of unlawfully acting in concert oceans away. While these methods might have been unimaginable to the robber barons whose conduct necessitated and inspired the Sherman Act, under Section 1, "the machinery employed by a combination for price-fixing is immaterial." *Socony-Vacuum*, 310 U.S. at 223. Section 1 applies to collaborations that eliminate independent decisionmaking—however they have been brought about. *See Am. Needle*, 560 U.S. at 186, 195;

pp. 5-8, *infra*. Antitrust law does not become obsolete simply because conspirators find new ways to act in concert. As the Supreme Court has recognized, the Sherman Act was written to "embrace[] all forms of combination, *old and new.*" *United States v. Union Pac. R. Co.*, 226 U.S. 61, 85-86 (1912) (emphasis added); *cf.* Richard Posner, *Antitrust in the New Economy*, 68 ANTITRUST L.J. 925, 925 (2001) ("[A]ntitrust doctrine is supple enough . . . to take in stride the competitive issues presented by the new economy.").

Today, software algorithms can be employed to fix prices—and this modern machinery may be easier and more effective than past methods of price fixing. Algorithms can process far more information more rapidly than humans. The technical capabilities of software can enhance competitors' ability to optimize cartel gains, monitor real-time deviations, and minimize incentives to cheat. *See, e.g.*, Salil K. Mehra, *Price Discrimination-Driven Algorithmic Collusion: Platforms for Durable Cartels*, 26 STAN. J. L. & BUS. FIN. 171, 177 (2021).

Longstanding legal principles apply with equal force to this new machinery. Section 1 prohibits competitors from fixing prices by knowingly sharing their competitive information with, and then relying on pricing decisions from, a common *human* pricing agent who competitors know analyzes information from multiple competitors. The same prohibition applies where, as here, the common pricing agent is a common software algorithm.

2. This case involves two complaints alleging unlawful price-fixing schemes among landlords<sup>1</sup> organized by a software algorithm company: RealPage.<sup>2</sup> One complaint alleges an unlawful agreement to use RealPage software recommendations to "raise multifamily rental

<sup>&</sup>lt;sup>1</sup> "Landlords" in this memorandum refers to all defendants named in the complaints, save RealPage, Inc. and its private-equity owners.

<sup>&</sup>lt;sup>2</sup> All facts in this memorandum are based on the complaints. Factual allegations are "taken as true" as true on a motion to dismiss. *Darby v. Childvine, Inc.*, 964 F.3d 440, 444 (6th Cir. 2020).

housing prices." Doc. No. 530 ("Multifamily Compl."), ¶¶ 1, 5-6. The second alleges a similar scheme to "artificially inflate the prices of student housing." Doc. No. 527 ("Student Compl."),  $\P$ ¶ 1, 6.<sup>3</sup>

RealPage, the complaints allege, unlawfully combines competing landlords' decisionmaking on housing prices. To participate in the service, landlords must share in "real-time" their "non-public," "competitively sensitive" data, including actual rents paid, occupancy rates, and records of lease transactions. Multifamily Compl. ¶¶ 227, 380. RealPage then feeds "this data into a common algorithm." Student Compl. ¶ 5; Multifamily Compl. ¶ 380. The common algorithm uses these common data for a single, common purpose: to generate "forward-looking, unit-specific pricing and supply recommendations" for all participating landlords. Student Compl. ¶ 5. To ensure that the landlords abide by these "recommendations," RealPage puts significant "pressure" on them "to implement RealPage's prices," including by requiring clients to submit requests to deviate to the "corporate office" and tracking the "identity of the client's staff that requested a deviation." Multifamily Compl. ¶¶ 17-20, 261-86. As a result, landlords using RealPage adopt RealPage's recommendations 80-90% of the time. *Id.* ¶ 15.

The complaints allege that RealPage was clear about the purpose of its common pricing scheme: to increase prices above competitive levels through collaboration. According to the complaints, RealPage's own marketing materials make clear that it "utilizes the competitive data" of competitors, Student Compl. ¶ 5, to allow those competitors to "outperform the market," Multifamily Compl. ¶ 4; Student Compl. ¶¶ 15, 142. As RealPage allegedly put it, it offered clients "the ability to 'outsource daily pricing and ongoing revenue oversight' to RealPage," allowing

<sup>&</sup>lt;sup>3</sup> This memorandum addresses only plaintiffs' claim that the alleged scheme is per se unlawful. It does not address plaintiffs' alternate, rule-of-reason claim or the student plaintiffs' claim alleging a conspiracy to exchange competitively sensitive information.

RealPage to "set prices for its clients' properties 'as though we [RealPage] own[ed] them ourselves." Multifamily Compl. ¶ 7. Collaboration on prices, including via sharing nonpublic pricing and supply information, is thus the central feature of the product. As an employee for one landlord stated: While "we are all technically competitors, [RealPage product] helps us to work together . . . to make us *all* more successful in our pricing," as the software is "designed to work with a community in pricing strategies, *not work separately*." *Id.* ¶ 9 (emphases added); *accord* Student Compl. ¶¶ 4, 6. Put simply, RealPage allegedly replaces independent competitive decisionmaking on prices, which often leads to lower prices for tenants, with a price-fixing combination that violates Section 1 of the Sherman Act.

Defendants have moved to dismiss both complaints, claiming that plaintiffs failed to adequately allege a Section 1 violation. Doc. No. 593 ("Multifamily Mot."); Doc No. 588 ("Student Mot.").

#### **ARGUMENT**

Section 1 of the Sherman Act prohibits "[e]very contract, combination in the form of trust or otherwise, or conspiracy" that unreasonably restrains trade. 15 U.S.C. § 1; *Bd. of Regents*, 468 U.S. at 98. The Supreme Court has identified two central elements under Section 1: (1) a "contract, combination, or conspiracy"—that is, "concerted action," the joining together of "independent centers of decisionmaking"; and (2) that "unreasonably restrains trade." *Am. Needle*, 560 U.S. at 186, 195. Each element poses a separate inquiry. The "question whether an arrangement is a contract, combination, or conspiracy is different from and antecedent to the question whether it unreasonably restrains trade." *Id* at 186.

This memorandum addresses each element in turn. As to the first, it explains that concerted action includes any conduct that joins together otherwise-separate decisionmaking and thus deprives the market of independent centers of decisionmaking. As to the second, it explains that certain classes of conduct—including price-fixing arrangements among actual or potential competitors—are categorically unreasonable restraints of trade that violate Section 1 of the Sherman Act.

#### I. There Are Many Types of Concerted Action and Many Ways of Proving It

In this section, we first address the proper scope of Section 1's concerted-action requirement before explaining the range of evidence capable of satisfying it. We conclude by applying the law to the allegations set forth in the complaints.

## A. Concerted Action Includes Any Type of Conduct That Joins Together Separate Decisionmakers and Thus Deprives the Marketplace of Independent Centers of Decisionmaking

As the Supreme Court has made clear, "Section 1 applies only to concerted action that restrains trade." *Am. Needle*, 560 U.S. at 190. Because Congress recognized that "[c]oncerted activity inherently is fraught with anticompetitive risk," it defined concerted action broadly to encompass contracts, combinations, and conspiracies. *Id.* at 190, 195 (citation omitted). The "key" to the concerted-action inquiry is whether the alleged arrangement "joins together separate decisionmakers" and thus "deprives the marketplace of independent centers of decisionmaking." *Id.* at 195 (citations omitted). It is a "functional analysis" that focuses on "how the parties involved in the alleged anticompetitive conduct actually operate." *Id.* at 191-92, 195; *see also id.* at 196 (reaffirming that "the inquiry is one of competitive reality").

Given the Sherman Act's focus on protecting independent decisionmaking, courts recognize that the joint delegation of competitive decisions constitutes concerted action under Section 1. For example, the Supreme Court has held that "decisions by [a joint licensing agent] regarding the [NFL] teams' separately owned intellectual property constitute concerted action" by the teams. *Am. Needle*, 560 U.S. at 204 (citation omitted). And the Second Circuit has concluded that allegations that competing entities "have 'surrendered [their] freedom of action . . . and agreed

to abide by the will of the association[]" are "enough" for concerted action. *Relevent Sports, LLC* v. United States Soccer Fed'n, Inc., 61 F.4th 299, 309 (2d Cir. 2023) (citing Anderson v. Shipowners' Ass'n of Pac. Coast, 272 U.S. 359, 364-65 (1926)). In these situations, the common delegation of decisionmaking to a common entity allows its decisions to affect actual or potential competition—even without any additional subsequent agreement or coordination among the parties. This kind of delegation thus represents the joining together of separate actors with separate economic interests characteristic of concerted action that Section 1 of the Sherman Act reaches.

Even when courts look for an "agreement" among separate entities in analyzing concerted action, "[n]o formal agreement is necessary" under Section 1. *Am. Tobacco Co. v. United States*, 328 U.S. 781, 809 (1946). "[T]acit" agreements qualify.<sup>4</sup> *Bell Atl. Corp. v. Twombly*, 550 U.S. 544, 553 (2007) (citation omitted); *Erie Cnty., Ohio v. Morton Salt, Inc.*, 702 F.3d 860, 868 (6th Cir. 2012); *C.S. Sewell, M.D. P.C. v. Amerigroup Tennessee, Inc.*, 2018 WL 6591429, at \*3 (M.D. Tenn. Dec. 14, 2018) (Crenshaw, J.). Such tacit agreements can involve merely a "wink and a nod," *Kleen Prod. LLC v. Georgia-Pac. LLC*, 910 F.3d 927, 936 (7th Cir. 2018), or be an informal "gentlemen's agreement or understanding," *Socony-Vacuum.*, 310 U.S. at 179, 252; in these circumstances, "only the conspirators' actions . . . indicate the existence of an agreement." *White v. R.M. Packer Co.*, 635 F.3d 571, 575-76 (1st Cir. 2011).<sup>5</sup>

<sup>&</sup>lt;sup>4</sup> A "tacit agreement," which is concerted action, *Twombly*, 550 U.S. at 553, is different from mere interdependent action by firms in oligopolistic markets, which is sometimes called "tacit collusion" and is not concerted action. *See Brooke Group Ltd. v. Brown & Williamson Tobacco Corp.*, 509 U.S. 209, 227 (1993).

<sup>&</sup>lt;sup>5</sup> See also Direct Sales Co. v. United States, 319 U.S. 703, 714 (1943) ("it can make no difference [that] the agreement was a tacit understanding, created by a long course of conduct and executed in the same way"); United States v. Maliszewski, 161 F.3d 992, 1006 (6th Cir. 1998) ("evidence of a tacit agreement or mutual understanding is sufficient to demonstrate a conspiracy").

That breadth of Section 1's reach rests in part on the fact that, by its own statutory terms, the provision covers "combination[s]" in addition to "contract[s]" and "conspirac[ies]." 15 U.S.C. § 1. The statutory term "combination" has been interpreted to cover actions in concert where the challenged conduct inherently involves cooperative behavior, such as when holding companies join together the operation of previously competing companies. *See, e.g., United States v. Am. Tobacco Co.*, 221 U.S. 106, 187 (1911); *N. Sec. Co. v. United States*, 193 U.S. 197, 326-27 (1904). And a "combination" exists when there is an implied (or express) "understanding that the participants will jointly give up their trade freedom." *E. R. R. Presidents Conf. v. Noerr Motor Freight, Inc.*, 365 U.S. 127, 136-37 (1961).

Importantly, establishing concerted action under Section 1 does not require any showing of *simultaneous* action—or even action that is close in time. It is "elementary that an unlawful conspiracy may be and often is formed without simultaneous action or agreement on the part of the conspirators." *Interstate Circuit v. United States*, 306 U.S. 208, 227 (1939). An agreement therefore "need not be entered into by all the parties at the same time" and "may be reached by successive actions evidencing their joining of [a] conspiracy." *United States v. Jackson*, 422 F.2d 975, 978 (6th Cir. 1970); *see also Kleen Prod., LLC v. Packaging Corp. of Am.*, 775 F. Supp. 2d 1071, 1077 (N.D. Ill. 2011) (collecting cases).

For these reasons, defendants' motions to dismiss are based on an overly narrow view of concerted action. Defendants seek to limit the scope of Section 1 to a narrow category of conspiracy: that in which individuals enter a formal agreement to engage in the same conduct at the same time. *See* Multifamily Mot. 9-11; Student Mot. 8-9. But concerted action is not so limited. As explained above, competitors act in concert when their conduct "joins together separate decisionmakers," thereby "depriv[ing] the marketplace of independent centers of

decisionmaking." *Am. Needle*, 560 U.S. at 195 (citations omitted). This deprivation of independent centers of decisionmaking can occur through delegation to a common entity or through tacit agreement, and it does not require simultaneous action.

#### **B.** Concerted Action Can Be Shown In Many Ways, Including An Invitation Followed By Conduct Showing Acceptance

Concerted action can be shown through circumstantial or direct evidence. *Hyland v. HomeServices of Am., Inc.*, 771 F.3d 310, 318-20 (6th Cir. 2014); *C.S. Sewell*, 2018 WL 6591429, at \*3. But, just as there are many types of concerted action, there are many ways of proving it through either avenue.

1. Start with circumstantial evidence. Defendants' motions focus narrowly on only one type of circumstantial evidence: parallel conduct and plus factors. Multifamily Mot. 13-23; Student Mot. 11-20. This method of proof makes sense in some circumstances, including where plaintiffs seek to infer a secret conspiracy from parallel conduct, such as multiple competitors' setting or changing their prices at the same time. *See, e.g., Hyland*, 771 F.3d at 318. In those instances, courts often look to "plus factors" to gauge whether there is sufficient circumstantial evidence to infer that the parallel conduct stems from concerted action instead of independent action.

But that is not the only way to prove concerted action circumstantially. As this Court has explained, the core question on a Rule 12(b)(6) motion is whether there are allegations that "raise[] an inference of coordination" and "negate[] the likelihood of independent action." *C.S. Sewell*, 2018 WL 6591429, at \*3. In some situations, the evidence may disclose cooperative conduct among the defendants—such that a "combination" of competitors joining together their decisionmaking can be inferred from their cooperative actions. As the Supreme Court has held, "a common purpose and plan may be inferred from a development and collocation of

circumstances." *Glasser v. United States*, 315 U.S. 60, 80 (1942) (internal quotation marks omitted), *superseded on other grounds as recognized by Bourjaily v. United States*, 483 U.S. 171, 181 (1987); *United States v. Frazier*, 584 F.2d 790, 796 (6th Cir. 1978) (same); *In re Vitamins Antitrust Litig.*, 320 F. Supp. 2d 1, 16 (D.D.C. 2004) (same).

In particular, as the Supreme Court held in *Interstate Circuit v. United States*, an invitation proposing collective action followed by a course of conduct showing acceptance suffices to show concerted action: "[A]cceptance by competitors, *without previous agreement*, of an invitation to participate in a plan . . . is sufficient to establish an unlawful conspiracy under the Sherman Act." 306 U.S. at 227 (emphasis added). In *Interstate Circuit*, a manager of two movie theater companies sent identical letters to eight major national film distributors—mentioning in the letter that the same letter was being sent to all of them. The letter asked the distributors to impose certain restrictions on secondary runs of certain films. The distributors responded by imposing the restrictions. Although the Court first inferred an express agreement relying on considerations commonly used as part of the plus-factors framework today, it emphasized that such an express agreement was "*not* a prerequisite to [finding] an unlawful conspiracy." 306 U.S. at 226 (emphasis added).

Rather, the Court discussed how there was an alternative way of inferring that the defendants acted in concert under Section 1. This approach was distinct from the modern-day plus-factors analysis. Instead of looking to the sort of factors that would be termed "plus factors" today, the Court focused on the *nature* of the invitation (*i.e.*, whether it contemplates concerted action) and competitors' responsive actions demonstrating acceptance of the invitation: "It was enough that, knowing that concerted action was contemplated and invited, the distributors gave their adherence to the scheme and participated in it." *Id.* at 226-27. In particular, the Court

explained that "[e]ach distributor was advised that the others were asked to participate" and that "each knew that cooperation was essential to successful operation of the plan." *Id.* These circumstances, the Court held, showed concerted action even without "a previous [express] agreement." *Id.* at 227; *see also FTC v. Cement Inst.*, 333 U.S. 683, 716 n.17 (1948) (explaining that it is sufficient "if there is evidence that persons, with knowledge that concerted action was contemplated and invited, give adherence to and then participate in a scheme").

The Supreme Court applied this same approach in *United States v. Masonite Corp.*, 316 U.S. 265, 274-76 (1942). It held that the "circumstances surrounding the making of [bilateral settlement contracts]," including that each competitor was "aware" that "its contract was not an isolated transaction but part of a larger arrangement," left "no room for doubt that all had an awareness of the general scope and purpose of the undertaking" sufficient to establish a broader, single conspiracy. *Id.* Put simply, "[i]t is enough that a concert of action is contemplated and that the defendants conformed to the arrangement." *United States v. Paramount Pictures, Inc.*, 334 U.S. 131, 142 (1948).

Lower courts have frequently recognized this method for showing concerted action as a viable path. This Circuit, for instance, has applied *Interstate Circuit*'s holding that competitors' acceptance, through conduct, of an invitation to act together suffices to establish concerted action. *See In re Travel Agent Comm'n Antitrust Litig.*, 583 F.3d 896, 906-07 (6th Cir. 2009) (considering whether plaintiffs alleged an antitrust conspiracy sufficiently similar to that in *Interstate Circuit*); *James R. Snyder Co. v. Assoc. Gen. Contractors of Am., Detroit Chapter, Inc.*, 677 F.2d 1111, 1121-22 (6th Cir. 1982) (quoting *Interstate Circuit* to explain that "[a]cceptance by competitors, without previous agreement, of an invitation to participate in a plan, the necessary consequence of which, if carried out, is restraint of interstate commerce, is sufficient to establish an unlawful

conspiracy under the Sherman Act"); *United States v. Moody*, 787 F. App'x 857, 870 (6th Cir. 2019) (unpublished) (describing a "classic hub-and-spoke conspiracy" as one where "concerted action was contemplated and invited," and where each participant "knew that cooperation was essential") (quoting *Interstate Circuit*); *cf. Lamb Enterprises, Inc. v. Toledo Blade Co.*, 461 F.2d 506, 516 (6th Cir. 1972) (upholding jury instruction in antitrust case that a conspiracy exists if there is "concert of action between [the defendants]"). And federal courts of appeals have repeatedly done the same, including in analogous cases.<sup>6</sup>

*Meyer v. Kalanick*, 174 F. Supp. 3d 817 (S.D.N.Y. 2016), is particularly instructive. The district court considered whether Uber, a transportation mobile app, organized a conspiracy among independent drivers to use Uber's pricing algorithm in setting fares for riders. The court relied on *Interstate Circuit* to hold that plaintiffs plausibly alleged a conspiracy in which drivers "sign[ed] up for Uber precisely 'on the understanding that the other [drivers] were agreeing to the same' pricing algorithm." *Id.* at 824.<sup>7</sup> The court remarked, *id.* at 825:

<sup>&</sup>lt;sup>6</sup> See In re Ins. Brokerage Antitrust Litig., 618 F.3d 300, 331-32 (3d Cir. 2010) (considering whether, under Interstate Circuit, defendants' decisions "presuppose concerted action"); *PLS.Com, LLC v. Nat'l Ass'n of Realtors*, 32 F.4th 824, 843 (9th Cir. 2022) ("All that PLS must allege is that [the defendant] adhered to a common scheme.") (citing Interstate Circuit, 306 U.S. at 227); *Toys R Us, Inc. v. FTC*, 221 F.3d 928, 935-36 (7th Cir. 2000) (citing Interstate Circuit and inferring agreement among competitors in part "from the nature of the proposals [made by an intermediary], from the manner in which they were made," and "from the substantial unanimity of action taken"); United States v. Foley, 598 F.2d 1323, 1331-32 (4th Cir. 1979) (citing Interstate Circuit and upholding price-fixing convictions where competitors raised prices after a host announced to his competitor guests that, though he "did not care what the others did," he planned to increase prices); cf. United States v. Apple, Inc., 791 F.3d 290, 316 (2d Cir. 2015) ("Apple understood that its proposed Contracts were attractive to the Publisher Defendants only if they collectively shifted their relationships with Amazon to an agency model—which Apple knew would result in higher consumer-facing ebook prices.").

<sup>&</sup>lt;sup>7</sup> The court in *Meyer* also considered allegations that "drivers' agreements with Uber would 'be against their own interests were they acting independently." *Meyer*, 174 F. Supp. 3d at 824. Although showing that actual or potential competitors acted against their self-interest can be helpful in distinguishing whether conduct results from agreement or independent action, it is not

It is fundamental to the law of conspiracy that the agreements that form the essence of the misconduct are not to be judged by technical niceties but by practical realities. Sophisticated conspirators often reach their agreements as much by the wink and the nod as by explicit agreement, and the implicit agreement may be far more potent, and sinister, just by virtue of being implicit.

2. There are similarly many types of direct evidence. What constitutes such evidence can depend on the conduct being challenged. For instance, in a case challenging a contractual term, the contract itself is direct evidence of concerted action. *See Epic Games, Inc. v. Apple, Inc.*, 67 F.4th 946, 982 & n.13 (9th Cir. 2023); *Systemcare, Inc. v. Wang Labs. Corp.*, 117 F.3d 1137, 1143 (10th Cir. 1997). And in a case challenging association rules governing members' separate businesses, the rules themselves are direct evidence of concerted action. *See Relevent*, 61 F.4th at 303; *Robertson v. Sea Pines Real Estate Cos., Inc.*, 679 F.3d 278, 289 (4th Cir. 2012). In each of these examples, no more is necessary to prove concerted action under Section 1.

Contrary to defendants' assertion, Multifamily Mot. 13; Student Mot. 11, direct evidence of *concerted action* need not be tantamount to an acknowledgement of guilt. The concerted-action element is separate from the unreasonable-restraint element. *See Am. Needle*, 560 U.S. at 186. Indeed, as *American Needle* makes clear, even a procompetitive agreement that does not violate Section 1 still satisfies the concerted-action element. *Id.* at 202-03.

#### C. The Complaints Allege Concerted Action

To survive a motion to dismiss, the allegations of concerted action must be "plausible" on "the assumption that all the [factual] allegations in the complaint are true (even if doubtful in fact)." *Twombly*, 550 U.S. at 555-56. A "conclusory allegation of agreement" is not enough; some "factual enhancement" is needed to raise the plaintiff's entitlement to relief from "possible" to

*necessary* for establishing agreement where a proposal contemplates concerted action (which naturally tends to rule out independent action).

"plausible." *Id.* at 556-57. The complaints allege numerous facts plausibly suggesting several related ways in which the landlords acted in concert.

Factual allegations in both complaints point to evidence of an invitation to act in concert followed by acceptance—evidence that is sufficient to plead concerted action under *Interstate Circuit. See* Multifamily Compl. ¶ 8 (citing *Interstate Circuit*); Student Compl. ¶¶ 4-8. Namely, it is "enough" that the landlords, "knowing that concerted action was contemplated and invited," adhered "to the scheme and participated in it." *Interstate Circuit*, 306 U.S. at 226-27.

To begin, the complaints allege that RealPage's proposal "contemplated" and "invited" concerted action among the landlords. In fact, its "intent to create coordination among users," including its "aim" of "increasing revenues by raising rents," was "transparent to all." Multifamily Compl. ¶ 4. Among other things, RealPage required each user to submit real-time pricing and supply data to it, and RealPage's marketing materials allegedly "touted" its use of "non-public data from other RealPage clients," enabling them to "raise rents in concert"; as well as the algorithms' ability to "facilitate collaboration among operations" and "track your competition's rent with precision." Multifamily Compl. ¶¶ 4, 6-9, 212, 292; Student Compl. ¶¶ 4, 6, 9.

The complaints then allege that the landlords "gave their adherence to the scheme and participated in it," *Interstate Circuit*, 306 U.S. at 226-27. In particular, according to the complaints, the landlords allegedly sent RealPage the non-public and competitively sensitive data (as RealPage proposed), Multifamily Compl. ¶¶ 227, 380; Student Compl. ¶¶ 5, 67, and overwhelmingly priced their units in line with RealPage's suggested prices (80-90%), Multifamily Compl. ¶ 10, 15, 241, 262; Student Compl. ¶¶ 6-9. Indeed, the complaints also contain ample allegations on how RealPage directly constrained the "deviations" from its suggested prices, including by enforcing and monitoring compliance with those prices, so the landlords effectively

delegated aspects of their pricing decisions to RealPage. Multifamily Compl. ¶¶ 6, 17-20, 255-86; Student Compl. ¶¶ 6-7, 84-93.<sup>8</sup>

Relatedly, the multifamily plaintiffs allege that the landlords jointly delegated aspects of decisionmaking on prices to RealPage. They allege that, by using RealPage's pricing algorithms, each client defendant "agreed" to a common plan that involved "delegat[ing] their rental price and supply decisions to a common decision maker, RealPage." Multifamily Compl. ¶ 6. Indeed, RealPage allegedly touted this feature—stating in a press release that it gives clients "the ability to 'outsource daily pricing and ongoing revenue oversight," such that RealPage could "set prices" as though it "own[ed]" the clients' properties "ourselves." Multifamily Compl. ¶ 7. Jointly delegating any part of the decision-making process reflects concerted action. See p. 5-8, supra. That the delegation is to a software algorithm, rather than a human, makes no difference to the legal analysis. Just as "surrender[ing] freedom of action... and agree[ing] to abide by the will of the association" can be enough for concerted action, Relevent, 61 F.4th at 309, so can be relying on a joint algorithm that generates prices based on shared competitively sensitive data. The actions of the joint agent can "constitute concerted action" by the participants. Am. Needle, 560 U.S. at 200, 204. And if evidence of this delegation exists that requires "no inferences to establish the proposition . . . being asserted," then there exists direct evidence of concerted action. Hyland, 771 F.3d at 318.

<sup>&</sup>lt;sup>8</sup> Plaintiffs also alleged parallel conduct and plus factors seeking to raise an inference of an express agreement among the competing landlords. *See, e.g.*, Multifamily Compl. ¶¶ 366-89; Student Compl. ¶¶ 118-140. But, as discussed at pp. 8-14, such allegations are not necessary to state a Section 1 claim, and we take no position on them.

# II. The Per Se Rule Prohibiting Price Fixing Applies to Price Fixing Using Algorithms

If concerted action has been established under Section 1, courts ask next whether those actions in concert "unreasonably restrain[] trade." *Am. Needle*, 560 U.S. at 186. But for certain classes of conduct, no specialized inquiry is necessary—they are per se unlawful. Price fixing, one of the "supreme evil[s]" of antitrust, is the prototypical example of per se unlawful conduct. He *Verizon Commc'ns Inc. v. Law Offices of Curtis V. Trinko, LLP*, 540 U.S. 398, 408 (2004); *Catalano, Inc. v. Target Sales, Inc.*, 446 U.S. 643, 647 (1980) (describing horizontal price fixing as the "archetypal" per se violation). The analysis is no different simply because a software algorithm is involved.

Taking the allegations set forth in the complaints as true, the alleged scheme meets the legal criteria for per se unlawful price fixing. Although not every use of an algorithm to set price qualifies as a per se violation of Section 1 of the Sherman Act, it is per se unlawful when, as alleged here, competitors knowingly combine their sensitive, nonpublic pricing and supply information in an algorithm that they rely upon in making pricing decisions, with the knowledge and expectation that other competitors will do the same.

## A. Using an Algorithm to Fix Prices Among Actual or Potential Competitors Is Per Se Unlawful

Courts analyze whether concerted action is anticompetitive, and thus unreasonable, in one of two ways: under (1) the per se rule or (2) the rule of reason. *Ohio v. Am. Express Co.*, 138 S. Ct. 2274, 2283 (2018) ("*Amex*"); *Total Benefits Plan. Agency, Inc. v. Anthem Blue Cross & Blue Shield*, 552 F.3d 430, 434 (6th Cir. 2008). The per se rule condemns certain categories of restraints as unreasonable based on their inherently anticompetitive "nature and character." *Standard Oil Co. of New Jersey v. United States*, 221 U.S. 1, 64-65 (1911). The rule of reason requires a "fact-specific assessment" of the restraint's effect on competition. *Amex*, 138 S. Ct. at 2284.

Which rule applies typically depends on the answers to two questions. First, is the restraint "horizontal" or "vertical"? Because horizontal restraints join together actual or potential competitors, they pose a heightened risk of harm to the competitive process and "are generally less defensible" than vertical restraints. *Arizona v. Maricopa County Med. Soc'y*, 457 U.S. 332, 348 n.18 (1982). Typically, only horizontal restraints are per se unlawful. *Amex*, 138 S. Ct. at 2283-84. Second, if the concerted action is horizontal, does the restraint fall within one of the "classes of restraints which from their nature or character were unduly restrictive, and hence forbidden by both the common law and the statute," *Klor's, Inc. v. Broadway-Hale Stores, Inc.*, 359 U.S. 207, 211 (1959)? If so, the restraint is per se unlawful, whatever its form.

1. Horizontal restraints are those that "eliminate some degree of rivalry" among "actual or potential competitors." *Rothery Storage & Van Co. v. Atlas Van Lines, Inc.*, 792 F.2d 210, 229 (D.C. Cir. 1986); *see also Bd. of Regents*, 468 U.S. at 99 (defining "horizontal restraint" as "an agreement among competitors on the way in which they will compete with one another"); *Bus. Elecs. Corp. v. Sharp Elecs. Corp.*, 485 U.S. 717, 730 (1988) ("Restraints imposed by agreement between competitors have traditionally been denominated as horizontal restraints[.]"); *In re SE Milk Antitrust Litig.*, 739 F.3d 262, 272 (6th Cir. 2014) ("An agreement 'between competitors at the same level of the market structure' is horizontal."). For example, in *Board of Regents*, the Supreme Court held that NCAA member institutions created a "horizontal restraint" by "participating in an association which prevents [them] from competing against each other on the basis of price or kind of television rights that can be offered to broadcasters." 468 U.S. at 99. On the other hand, when "firms at different levels of distribution" agree on matters over which they do not compete—such as a manufacturer setting the terms for the distribution or sale of its *own* products—those restraints are "vertical." *Bus. Elecs.*, 485 U.S. at 730.

2. Horizontal price fixing is a prototypical class of restraint that is per se unlawful. *FTC v. Superior Ct. Trial Lawyers Ass'n*, 493 U.S. 411, 434 (1990); *Socony-Vacuum*, 310 U.S. at 218, 224 n.59 (stating that horizontal price fixing is "consistently and without deviation" held per se unlawful); *Catalano*, 446 U.S. at 647. That remains true regardless of its particular form: "Whatever may be its peculiar problems and characteristics, the Sherman Act, so far as price-fixing agreements are concerned, establishes one uniform rule applicable to all industries alike." *Socony-Vacuum*, 310 U.S. at 221-22; *Maricopa*, 457 U.S. at 346.<sup>9</sup>

Per se unlawful price fixing includes not only competitors' acting in concert to set the same price at which a product is bought or sold. It also includes any "combination formed for the purpose and with the effect of raising, depressing, fixing, pegging, or stabilizing the price of a commodity." *Socony-Vacuum*, 310 U.S. at 223; *see Maricopa*, 457 U.S. at 339, 348; *United States v. McKesson & Robbins, Inc.*, 351 U.S. 305, 309-10 (1956). Under this well-established standard, the Supreme Court and courts of appeals have declared per se unlawful numerous types of price-fixing arrangements, including concerted action on price components, formulas, or discounts. *E.g., Socony-Vacuum*, 310 U.S. at 222 (explaining that setting formulas is per se unlawful); *Catalano*, 446 U.S. at 648 (same for eliminating discounts); *Maricopa*, 457 U.S. at 339 (same for establishing maximum fee schedules); *Gelboim v. Bank of Am. Corp.*, 823 F.3d 759, 771 (2d Cir. 2016) (same for fixing LIBOR interest rate—"a component of the return from various LIBOR-denominated financial instruments"). Particularly relevant here, the Supreme Court has long condemned as per se unlawful agreements to use the same "formula underlying price policies," *Socony-Vacuum*, 310 U.S. at 224-226 n.59, which includes use of the same pricing algorithm. *See* Plea Agreement,

<sup>&</sup>lt;sup>9</sup> Defendants can avoid per se liability by raising and establishing an ancillary-restraints defense, but defendants have not raised such a defense here.

United States *Topkins*, No. CR 15-00201 (N.D. Cal. Apr. 30. 2015). v. https://www.justice.gov/atr/case-document/file/628891/download, at ¶ 4(b) (conspirators' "agree[ing] to adopt specific pricing algorithms"). Courts have also recognized that price fixing can be accomplished through means other than merely agreeing to the final price-such as revenue sharing, Palmer v. BRG of Ga., Inc., 498 U.S. 46, 49 (1980), and restricting output, e.g., Soconv-Vacuum, 310 U.S. at 223 (holding unlawful price fixing via purchasing surplus gasoline); Kleen, 910 F.3d at 937 (same via jointly restricting supply).

#### B. The Per Se Rule Applies to the Allegations in this Case

Taking the complaints' allegations as true, the alleged scheme is (1) horizontal (2) price fixing.

1. The alleged scheme is horizontal because it "eliminate[s] some degree of rivalry between persons or firms who are actual or potential competitors," *Rothery*, 792 F.2d at 229—namely, the competing landlords that have allegedly agreed to use RealPage's pricing algorithm and follow its recommendations. *See* pp. 2-4, 13-14, *supra*.

Defendants object to per se treatment in part because they view the challenged concerted action as "*vertical* in nature," presumably because RealPage and the landlords are not competitors. Multifamily Mot. 28; Student Mot. 23. Because RealPage is not a supplier or distributor of housing units, it is unclear if the "vertical" label properly characterizes its relationship with the landlords. But, even if it does, RealPage's participation in the conspiracy does not vitiate per se treatment; competitors "cannot simply get around antitrust liability by acting through a third-party intermediary." *Am. Needle*, 560 U.S. at 202 (cleaned up). The key feature of the alleged scheme is that it eliminates separate pricing decisions by competing landlords—thus establishing a horizontal arrangement.

Courts have repeatedly found horizontal conspiracies to be per se unlawful even if a vertically related entity is involved. In United States v. General Motors Corp., for instance, the Supreme Court had "no doubt" that a collaboration among horizontal distributors was "a per se violation of the [Sherman] Act," even though a vertically related party (General Motors) was involved in the boycott. 384 U.S. 127, 145 (1966); see also Klor's, 359 U.S. at 209 (similar); Com-Tel v. DuKane, 669 F.2d 404, 412 (6th Cir. 1982) (similar). As other circuits have explained, the same goes for circumstances in which the vertically related party "conceptualized" or "orchestrated" the conspiracy among horizontal entities-defendants still agreed to a horizontal conspiracy and "cannot escape the per se rule." United States v. All Star Indus., 962 F.2d 465, 473 (5th Cir. 1992). In United States v. Apple, for instance, the Second Circuit condemned a pricefixing agreement as per se unlawful even though the conspiracy was organized by a distributor (Apple) that did not compete with the other parties (book publishers) to the agreement. 791 F.3d 290 (2d Cir. 2015). In the words of the Fifth Circuit, if "there is a horizontal agreement between [competitors], there is no reason why others joining that conspiracy must be competitors." United States v. MMR Corp. (LA), 907 F.2d 489, 498 (5th Cir. 1990).

2. Allegations in the complaints point to at least two characteristics that show that the alleged scheme falls within the class of per se unlawful price-fixing restraints.

*First*, the competing landlords have allegedly agreed to use RealPage and delegate aspects of pricing decisions to RealPage—which involves an algorithm analogous to a common pricing formula. Multifamily Compl. ¶¶ 6, 7, 30, 204, 230-232, 291; Student Compl. ¶¶ 61-93. Agreeing to use a common pricing formula is per se unlawful. *Socony-Vacuum*, 310 U.S. at 222. And the collective delegation of pricing decisions to a common entity or agent has been condemned as per se unlawful under Section 1. *See Citizen Pub. Co. v. United States*, 394 U.S. 131, 133-36 (1969)

(finding per se unlawful the delegation of key competitive decisions to joint entity); *Virginia Excelsior Mills, Inc v. FTC*, 256 F.2d 538, 540 (4th Cir. 1958) (finding per se unlawful the delegation of "all discretion in fixing prices" to a Board of Directors). It makes no difference that prices are fixed through joint use of an algorithm instead of by a person; price fixing by "express delegation, acquiescence, or understanding" is per se unlawful. *Masonite*, 316 U.S. at 274-75; *see Meyer*, 174 F. Supp. 3d at 824-26 (applying longstanding antitrust principles where prices are fixed by "algorithm"). Much like adopting a common pricing formula, acting in concert using a common pricing algorithm can exert an important "influence . . . on the starting point for prices," *Gelboim*, 823 F.3d at 776, which disrupts the decentralized price-setting mechanism in the market. *Cf. Cont'l Wall Paper Co. v. Lewis Voight & Sons Co.*, 212 U.S. 227, 235-36, 249 (1909) (finding unlawful a "combination" among wall paper manufacturers due in part to the combination's ability to set list prices).

Second, the complaints allege that defendants acted in concert by knowingly sharing "competitively sensitive" and "non-public" pricing information with RealPage. See supra pp. 3-4. They did this on the mutual understanding that other landlords, who are "technically competitors," would do the same, allowing competitors to "work together" with the common goal of increasing prices and profits. *Id.* Although the "dissemination of price information is not itself a per se violation of the Sherman Act," *United States v. Citizens & S. Nat'l Bank*, 422 U.S. 86, 113 (1975), courts have recognized that competitors' exchanging of price information can play an important role in price fixing, *see, e.g., Am. Column & Lumber Co. v. United States*, 257 U.S. 377, 411-12 (1921); *In re Flat Glass Antitrust Litig.*, 385 F.3d 350, 369 (3d Cir. 2004). Here, for example, RealPage allegedly generates specific pricing recommendations based on the competitors' confidential information, thus joining the competing landlords together in the pricing process. *Cf. Am. Column*, 257 U.S. at 411-12 (condemning information exchange whose "purpose and effect" were "to restrict competition" through "concerted action in curtailing production and in increasing prices"). It makes no difference that the confidential pricing information was shared through an algorithm rather than through "a guy named Bob." Maureen K. Ohlhausen, *Should We Fear The Things That Go Beep In the Night? Some Initial Thoughts on the Intersection of Antitrust Law and Algorithmic Pricing*, Federal Trade Commission, at 10 (May 23, 2017), https://www.ftc.gov/system/files/documents/public\_statements/1220893/ohlhausen\_-

\_concurrences\_5-23-17.pdf; *cf. United States v. Airline Tariff Pub. Co.*, 836 F. Supp. 9, 10 (D.D.C. 1993) (explaining, in a Tunney Act proceeding, that competitors fixed prices through "fare dissemination" software that enabled them to exchange confidential pricing information).

Importantly, the alleged scheme constitutes price fixing regardless of whether the competing landlords ever communicated with one another about prices. As explained above, Section 1 encompasses purely "tacit agreements." *Twombly*, 550 U.S. at 553; *see C.S. Sewell*, 2018 WL 6591429, at \*3 (same); *In re High Fructose Corn Syrup Antitrust Litig.*, 295 F.3d 651, 654 (7th Cir. 2002) (stating that Section 1 is "broad enough" to "encompass a purely tacit agreement to fix prices"). Under *Interstate Circuit*, it suffices to show that RealPage proposed the price-fixing scheme to competing landlords, who were each aware that its competitors were also being invited to participate in the scheme, and the competitors adhered to it—generating a common understanding among the competitors that they would increase prices collectively by using RealPage. *See Interstate Circuit*, 306 U.S. at 226-227; *see also Moody*, 787 F. App'x at 870 (quoting *Interstate Circuit*).

Defendants lodge two primary objections to the classification of their arrangement as price fixing. Both rest on a misunderstanding of the law, the alleged facts, or both.

First, defendants claim that the complaints must be dismissed because RealPage recommends, rather than mandates, certain prices. Multifamily Mot. 24-25; Student Mot. 21. But the complaints allege that RealPage exerts pressure to enforce its recommendations and landlords have outsourced pricing decisions to RealPage. See supra pp. 2-4. Even putting these factual allegations aside, however, courts have often applied the per se rule even though the fixed prices were non-mandatory. For instance, fixing advertised list prices is per se unlawful, even if firms are free to, and do, charge lower prices to customers. See Flat Glass, 385 F.3d 350 at 362-63 ("An agreement to fix list prices is ... a per se violation of the Sherman Act even if most or for that matter all transactions occurred at lower prices."). The Supreme Court has likewise condemned as price fixing a county bar association's "suggested" "minimum-fee schedule" for lawyers that was enforced by discipline from the State Bar. Goldfarb v. Virginia State Bar, 421 U.S. 773, 776, 782-83 (1975); see also Norfolk Monument Co. v. Woodlawn Mem. Gardens, 394 U.S. 700, 702-03 (1969) (describing pamphlet containing "suggested standards of fair and reasonable regulations which the [other conspirators] would be advised to adopt" as evidence of a price-fixing conspiracy).

In each of these cases, the challenged price-fixing scheme disrupted the competitive process. It is not necessary for liability that the scheme succeed in raising prices. *See Socony-Vacuum*, 310 U.S. at 224. So long as the evidence shows a mutual understanding among the competing landlords to use RealPage's prices as a starting point, the scheme is per se unlawful under Section 1.

*Second*, defendants argue that their conduct is not price fixing and hence the per se rule cannot apply because "[c]ourts have little to no experience evaluating whether use of revenue management software is unlawful under Section 1." Multifamily Mot. 28; Student Mot. 24. But

a defendant cannot "shield it[self] from the consequences" of organizing a price-fixing cartel merely because it organizes the cartel through disseminating a software program. Indeed, courts are not permitted to "examine the economic justification of . . . particular application[s] of the per se rule against price fixing." *Maricopa*, 457 U.S. at 349 n.19.

Judicial experience is relevant only in determining whether to adopt "a *new* per se rule" not in deciding whether to apply an *established* per se rule. *Maricopa*, 457 U.S. at 349 & n.19 (emphasis added); *see id.* at 351 (explaining that the per se rule need not "be rejustified for every industry"); *United States v. Andreas*, 216 F.3d 645, 667 (7th Cir. 2000). There is no more established per se rule in antitrust than the per se rule against horizontal price fixing. Since the alleged price-fixing scheme falls within that established category, the per se rule applies.

#### **CONCLUSION**

The law prohibiting horizontal price fixing applies with full force to schemes involving pricing algorithms. The motions to dismiss should be denied.

Respectfully submitted,

JONATHAN S. KANTER Assistant Attorney General

DOHA G. MEKKI Principal Deputy Assistant Attorney General

MAGGIE GOODLANDER Deputy Assistant Attorney General

ANDREW J. FORMAN Deputy Assistant Attorney General

DAVID B. LAWRENCE Policy Director

JACOBUS VAN DER VEN Counsel to the Assistant Attorney General

DANIEL E. HAAR NICKOLAI G. LEVIN STRATTON C. STRAND

YIXI (CECILIA) CHENG Attorneys

<u>/s/ Yixi (Cecilia) Cheng</u> U.S. Department of Justice Antitrust Division 950 Pennsylvania Ave NW, #3224 Washington, DC 20530 Telephone: 202-705-8342 Email: yixi.cheng@usdoj.gov

Counsel for the United States of America

Dated: November 15, 2023

HENRY C. LEVENTIS United States Attorney Middle District of Tennessee

/s/ Michael C. Tackeff

Michael C. Tackeff MICHAEL C. TACKEFF, B.P.R. #036953 Assistant United States Attorney 719 Church Street, Suite 3300 Nashville, TN 37203 Telephone: (615) 736-5151 Email: Michael.Tackeff@usdoj.gov

# **CERTIFICATE OF SERVICE**

I hereby certify that the foregoing document, which was filed with the Court through the CM/ECF system, will be sent electronically to all registered participants.

Dated: November 15, 2023

<u>/s/ Yixi (Cecilia) Cheng</u> YIXI (CECILIA) CHENG

С	ase 1:23-Case 23353 KM-10/1-EBAPR 50 oc 00 no en 1926 7631 419 i le El i Dest/2033/2041/274 agreatge f 18 dP & ge I D: 1374		
1		The Honorable Robert S. Lasnik	
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7	UNITED STATES DISTRICT COURT		
8	WESTERN DISTRICT OF WASHINGTON AT SEATTLE		
9	MCKENNA DUFFY, individually and on		
10	behalf of all others similarly situated,	Case No. 2:23-cv-01391-RSL	
11	V.	STATEMENT OF INTEREST OF	
12	YARDI SYSTEMS, INC., et al.,	THE UNITED STATES OF AMERICA	
13			
14	Defendants.		
15	The United States, through the U.S. Department of Justice and the Federal Trade		
16	Commission ("FTC"), respectfully submits this Statement of Interest pursuant to 28 U.S.C. § 517,		
17	which permits the Department of Justice "to attend to the interests of the United States" in any		
18	case pending in federal court. Both the Antitrust Division of the U.S. Department of Justice and		
19	the FTC enforce the federal antitrust laws, including the Sherman Act, 15 U.S.C. §§ 1, et seq., and		
20	have a strong interest in their correct application.		
21	In this case, plaintiffs allege that competing landlords <sup>1</sup> violated Section 1 of the Sherman		
22	Act, 15 U.S.C. § 1 ("Section 1"), by, among other things, unlawfully agreeing "to use Yardi's		
23			
24	<sup>1</sup> "Landlords" in this Statement of Interest refers to all lessors described in the complaint who allegedly participated in the combination or conspiracy in restraint of trade.		

Statement of Interest of the United States (Case No. 2:23-cv-01391-RSL) - 1

pricing algorithms to artificially inflate" multifamily rental prices. First Amended Class Action 1 Complaint ("FAC"), ECF No. 113, ¶ 180. Defendants have moved to dismiss the amended 2 3 complaint. Omnibus Motion to Dismiss, ECF No. 138 (hereinafter "Mot."). Because judicial treatment of the use of algorithms in price fixing has tremendous practical importance, the United 4 States submits this Statement to notify the Court of the United States' Statement of Interest and 5 accompanying Memorandum of Law (jointly hereafter "Statement of Interest") in In re RealPage, 6 7 Inc., Rental Software Antitrust Litig., No. 3:23-MD-3071 (M.D. Tenn. Nov. 15, 2023), ECF Nos. 627, 628, attached hereto as Attachments A and B, in which the United States discusses the key 8 legal principles applicable to claims of algorithmic price fixing. The United States also submits 9 this Statement to address an incorrect legal position in defendants' motion to dismiss: that the 10 landlords' retention of some pricing discretion dooms a price-fixing claim. Mot. 14-17. Case law 11 is clear that competitors may not agree to fix the *starting point* of pricing (e.g., agree to fix 12 advertised list prices) even if the actual charged prices vary from the starting point. Moreover, 13 14 where competitors agree to fix end prices, such price-fixing agreements are per se unlawful regardless of whether the conspirators adhere to or enforce compliance with the fixed prices. 15

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## ARGUMENT

There are two central elements of a Section 1 claim: (1) a "contract, combination, or
conspiracy," 15 U.S.C. § 1—that is, "concerted action," or the joining together of "independent
centers of decisionmaking"—(2) that "unreasonably restrains trade." *Am. Needle, Inc. v. NFL*,
560 U.S. 183, 186, 195 (2010). The United States' Statement of Interest in *In re RealPage*discusses the legal framework for both. *See* Attachment B.

As to the first element, the *RealPage* Statement of Interest explains that concerted action can take many forms—including, *inter alia*, competitors' jointly delegating key aspects of their decisionmaking to a common algorithm, because doing so "joins together separate

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## Case 1:23-Case 25363+60+10/1-E9APR 500 cubreet 1966-16149ile Files/2033/2041/274agPeage f38dP age ID: 1376

decisionmakers" and thus "deprives the marketplace of independent centers of decisionmaking."
 Attachment B at 5-8 (citing *Am. Needle*, 560 U.S. at 195, and other sources). It further explains
 that concerted action can be proven in various ways and does not require proof of parallel conduct
 and plus factors. *Id.* at 8-12.

5 As to the second element, the *RealPage* Statement of Interest explains that, under longstanding Supreme Court precedent, price-fixing agreements among actual or potential 6 7 competitors are "all banned" whatever their form. United States v. Socony-Vacuum Oil Co., 310 U.S. 150, 224 n.59 (1940). As the Statement of Interest makes clear, per se unlawful price 8 9 fixing includes not only competitors' acting in concert to set the same price at which a product is bought or sold, but also competitors' acting in concert to "rais[e], depress[], ... peg[], or 10 stabiliz[e] the price of a commodity." Id. at 223. This prohibition includes agreements to use the 11 same pricing formula—analogous to agreements to use the same pricing algorithm. 12 Attachment B at 17-20 (citing Socony-Vacuum, 310 U.S. at 224-226 n.59 (condemning as per se 13 14 unlawful agreement to use the same "formula underlying price policies"); Citizen Publ'g Co. v United States, 394 U.S. 131, 133-36 (1969) (finding per se unlawful the collective delegation of 15 pricing decisions to a joint entity)). 16

Defendants' motion to dismiss runs afoul of these key principles. Defendants claim that
plaintiffs' failure to allege adherence to Yardi's recommended prices dooms the amended
complaint, Mot. 14-17, but they are wrong on the law: It is per se illegal for competing landlords
to jointly delegate key aspects of their pricing to a common algorithm, even if the landlords retain
some authority to deviate from the algorithm's recommendations. *See* Attachment B at 22.

Although full adherence to a price-fixing scheme may render it more effective, the *effectiveness* of the scheme is not a requirement for per se illegality. Consistent with black-letter

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conspiracy law,<sup>2</sup> the violation is the agreement, and unsuccessful price-fixing agreements also are
per se illegal. *Socony-Vacuum*, 310 U.S. at 224 n.59; *United States v. Trenton Potteries*, 273 U.S.
392, 402 (1927) (it is "immaterial" whether "the purpose of the conspiracy was accomplished in
whole or in part"); *Plymouth Dealers ' Ass 'n of N. California v. United States*, 279 F.2d 128, 13233 (9th Cir. 1960) (even if the "plan . . . did not ultimately succeed," defendants are not
"absolve[d]"); *In re Flat Glass Antitrust Litig.*, 385 F.3d 350, 362-63 (3d Cir. 2004) (similar); *United States v. Gravely*, 840 F.2d 1156, 1161 (4th Cir. 1988) (similar).

Consonant with this principle, courts have explained that, just as competitors cannot agree 8 9 to fix their *final* prices, competitors cannot agree to fix the *starting* point of their prices; both types of agreements corrupt the decentralized price-setting mechanism in the market, whether or 10 not they ultimately succeed in raising or stabilizing prices. The Sherman Act condemns "[a]ny 11 combination which tampers with price structures," because such a combination "directly 12 interfer[es] with the free play of market forces." Socony-Vacuum, 310 U.S. at 221; see also 13 Gelboim v. Bank of Am. Corp., 823 F.3d 759, 774 (2d Cir. 2016) (horizontal price fixing "is 14 anathema to an economy predicated on the undisturbed interaction between supply and demand"). 15 Courts accordingly have held that it is per se illegal for competitors to fix advertised *list* 16 17 prices or sticker prices. See Attachment B at 20-22. In Plymouth Dealers' Association, 279 F.2d 128, for instance, a defendant convicted of price fixing for agreeing with competing dealers on a 18 "fixed uniform list price" for Plymouth cars argued that the conviction could not be upheld 19 20 because the government's case required "proof of something more—that [the uniform list price] was adhered to; that it was utilized to fix prices; or that it did actually fix prices." Id. at 130. The 21

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 <sup>&</sup>lt;sup>2</sup> See United States v. Torres, 503 F.2d 1120, 1124 n.2 (2d Cir. 1974) ("[A] conspiracy is punishable even if unsuccessful."); United States v. Paluch, 84 F. App'x 740, 744 (9th Cir. 2003) (unpub.) ("the mere fact that his acts in furtherance of the conspiracy were unsuccessful does not relieve [the defendant] of liability"). The Sherman Act is "on the common-law footing," and so embodies this conspiracy principle. Nash v. United States, 229 U.S. 373, 378 (1913).

Ninth Circuit rejected this argument, stating that "the fact that the dealers used the fixed uniform 1 list price in most instances only as a starting point[] is of no consequence." Id. at 132-33. As the 2 court of appeals explained, "[t]he test is not what the actual effect is on prices, but whether such 3 agreements interfere with 'the freedom of traders and thereby restrain their ability to sell in 4 accordance with their own judgment." Id. at 132 (quoting Kiefer-Stewart Co. v. Joseph E. 5 Seagram & Sons, 340 U.S. 211, 213 (1951), overruled on other grounds by Copperweld Corp. v. 6 Indep. Tube Corp., 467 U.S. 752 (1984)). The list-price agreement met that test, the court of 7 appeals reasoned, because the list price "prevent[ed] the determination of (market) prices by free 8 9 competition alone." Id. at 134 (quoting Socony-Vacuum Oil Co., 310 U.S. at 222, 223).

Numerous other courts of appeals likewise have rejected attempts to impose minimum 10 rates of adherence when assessing agreements to fix the starting point of pricing. Rather than 11 look to rates of adherence, courts reason that the fixed prices necessarily had some influence on 12 the market—thus disrupting the competitive process—from the very fact that defendants bothered 13 14 to fix such prices at all. In In re High Fructose Corn Syrup Antitrust Litig., 295 F.3d 651 (7th Cir. 2002) (Posner, J.), for instance, the Seventh Circuit rejected defendants' argument that there is no 15 horizontal price-fixing conspiracy where "many of the actual sales" occurred below the fixed list 16 17 prices. *Id.* at 656. The court explained that an agreement on list prices is a per se violation "even if most or for that matter all transactions occur at lower prices," because "sellers would not bother 18 19 to fix list prices if they thought there would be no effect on transaction prices," *id.* (emphasis 20 added). It was sufficient that the list price was "usually the starting point for the bargaining." Id. Similarly, in Gelboim, 823 F.3d at 775-77, the Second Circuit held that a horizontal conspiracy to 21 22 fix the LIBOR interest rate (a component of the price of certain financial instruments) is subject 23 to the per se rule even where consumers could negotiate the final price. As the court put it, 24 "antitrust law is concerned with influences that corrupt market conditions," *id.* at 773; indeed,

Statement of Interest of the United States (Case No. 2:23-cv-01391-RSL) - 5 U.S. Department Of Justice 950 Pennsylvania Ave. NW #3224 Washington, DC 20530 Telephone: (202) 705-8342 "even if *none* of the appellants' financial instruments paid interest at [the fixed] LIBOR [rate],"
plaintiffs can bring "an antitrust claim based on the *influence* that a conspiracy exerts on the *starting point* for prices," *id.* at 776 (emphases added); *see also In re Flat Glass*, 385 F.3d at 36263 (explaining defendants "cannot[]seriously contend that the [competitors] increased their list
prices with no intention of affecting transaction prices").

The same principle holds in cases involving joint delegation of pricing recommendations
to a common algorithm. By altering the starting point of prices, such agreements among
competitors are analogous to agreements to fix list prices—distorting the competitive pricing
process that the per se rule protects. As the Supreme Court made clear in *United States v*. *National Association of Real Estate Boards*, 339 U.S. 485 (1950), even "non-mandatory" rate
schedules can constitute price fixing. *Id.* at 488.<sup>3</sup> As the Court explained, "the fact that no
penalties are imposed for deviations from the price schedules is not material." *Id.* at 489.

Moreover, even when competitors agree to fix end prices, adherence to the agreed-upon 13 14 prices is not a condition of per se illegality. As explained above, the *agreement* is the violation, and unsuccessful price-fixing schemes are as unlawful as successful ones. For this reason, 15 defendants are wrong to suggest (Mot. 16-17) that a complaint must allege a binding enforcement 16 17 mechanism to state a valid claim for per se price fixing. This suggestion "fail[s] to distinguish between the existence of a conspiracy and its efficacy." In re High Fructose, 295 F.3d at 656; see 18 19 also In re Flat Glass, 385 F.3d at 362. Indeed, under defendants' view of the law, a price-fixing 20 cartel could evade per se treatment simply by inviting some participants who tend to deviate from the fixed prices or by agreeing that some deviation was allowed. The law banning horizontal 21

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<sup>&</sup>lt;sup>3</sup> That *United States v. National Association of Real Estate Boards*, 339 U.S. 485 (1950) (*NAREB*) involved Section 3 rather than Section 1 of the Sherman Act is immaterial to the analysis; Section 3 merely extends the prohibitions of Section 1 to U.S. territories and the District of Columbia. *See* 15 U.S.C. § 3.

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1	price-fixing agreements—the "archetypal" per se violation, Catalano, Inc. v. Target Sales, Inc.,		
2	446 U.S. 643, 647 (1980)—does not have such loopholes. <sup>4</sup>		
3	Dated: March 1, 2024		
4	Respectfully submitted,		
5	HENRY LIU	JONATHAN S. KANTER	
6	Director, Bureau of Competition	Assistant Attorney General	
	LAURA ALEXANDER	DOHA G. MEKKI	
7	Deputy Director, Bureau of Competition	Principal Deputy Assistant Attorney General	
8	LEIGH BARNWELL	ANDREW J. FORMAN	
	KARA KING	Deputy Assistant Attorney General	
9	KENNETH H. MERBER ERIC ZEPP	DAVID B. LAWRENCE	
10	Attorneys, Bureau of Competition	Policy Director	
11	ANISHA DASGUPTA General Counsel	MARKUS BRAZILL Counsel to the Assistant Attorney General	
12		Counsel to the Hististant Hitorney Ceneral	
	/s/ Kenneth H. Merber	DANIEL E. HAAR	
13	Kenneth H. Merber, DC No. 985703 Federal Trade Commission	NICKOLAI G. LEVIN STRATTON C. STRAND	
14	600 Pennsylvania Avenue, NW	STRATION C. STRATD	
	Washington, DC 20580	YIXI (CECILIA) CHENG	
15	Telephone: (202) 326-3573 Email: kmerber@ftc.gov	Attorneys	
16	Linan. Kinerbertæne.gov	/s/Yixi (Cecilia) Cheng	
		Yixi (Cecilia) Cheng, CA No. 325216	
17		U.S. Department of Justice Antitrust Division	
18		950 Pennsylvania Ave NW, #3224	
		Washington, DC 20530	
19		Telephone: 202-705-8342 Email: yixi.cheng@usdoj.gov	
20		Linan. yixi.eneng@usu0j.gov	
21			
<u>~1</u>	$\frac{1}{4}$ Finally to the extent defendants are claiming that plain	ntiffs must identify some confidential information "shared	
22			
23	mistaken. Sharing confidential pricing information with a common pricing agent can be equivalent to sharing that information directly with a competitor. Where, as here, plaintiffs' allegations involve a conspiracy to <i>centralize</i>		
23	pricing decisions in a third-party algorithm, it is irrelevant to the scheme whether landlords share confidential		
24	information among themselves or with only the pricing agent; the alleged scheme is designed to obviate the need for competitors to share information directly with each other.		

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1	TESSA M. GORMAN	
2	United States Attorney	
3	<i>s/ Rebecca S. Cohen</i> REBECCA S. COHEN, WSBA No. 31767	
4	Assistant United States Attorney Western District of Washington	
5	United States Attorney's Office 700 Stewart Street, Suite 5220	
6	Seattle, Washington 98101-1271 Phone: 206-553-7970	
7	Fax: 206-553-4067 Email: rebecca.cohen@usdoj.gov	
-	Eman. Tebecca.conen@usdoj.gov	
8	Counsel for the United States of America	
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22		
23		
24	Statement of Interest of the United StatesU.S. Department Of Justice(Case No. 2:23-cv-01391-RSL) - 8950 Pennsylvania Ave. NW #3224Washington, DC 20530Telephone: (202) 705-8342	

Yixi (Cecilia) Cheng U.S. Department of Justice Antitrust Division 950 Pennsylvania Ave NW, #3224 Washington, DC 20530 Telephone: 202-705-8342 Email: yixi.cheng@usdoj.gov Counsel for the United States of America

# UNITED STATES DISTRICT COURT DISTRICT OF NEW JERSEY

KAREN CORNISH-ADEBIYI, et al.,	Hon. Karen M. Williams, U.S.D.J.
Plaintiffs,	Civil Action 1:23-cv-02536
v.	
CAESARS ENTERTAINMENT, INC., et al.,	CERTIFICATE OF SERVICE
Defendants.	

I, YIXI (CECILIA) CHENG, hereby certify that on March 28, 2024, I filed the

following documents via this Court's ECF system:

- 1. Statement of Interest of the United States;
- 2. United States' Statement of Interest in *In re Realpage, Inc., Rental Sofware Antitrust Litig.*, No. 3:23-MD-3071 (M.D. Tenn. Nov. 15, 2023), ECF No. 627 (Attachment A);
- 3. United States' Memorandum of Law in *In re Realpage, Inc., Rental Sofware Antitrust Litig.*, No. 3:23-MD-3071 (M.D. Tenn. Nov. 15, 2023), ECF No. 628 (Attachment B);
- 4. United States' Statement of Interest in *Duffy v. Yardi*, No. 2:23-cv-01391 (W.D. Wa. March 1, 2024), ECF No. 149 (Attachment C); and
- 5. This Certificate of Service.

The Notice of Electronic Filing constitutes service on all parties under Rule

14(b)(1) of this Court's ECF Policies and Procedures listed in Local Civil Rule 5.2.

By: <u>/s/ Yixi (Cecilia) Cheng</u> Yixi (Cecilia) Cheng Case 1:23-cv-02536-KMW-EAP Document 96-4 Filed 03/28/24 Page 2 of 2 PageID: 1383

Trial Attorney Counsel for the United States of America