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There is no such thing as a free open sky: Financial markets and the struggle over European competences in international air transport*

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Abstract

Aviation is a prime example of a policy area where the clash over supranational regulatory responsibilities had pronounced economic repercussions. In this article, we examine the economic effects of the European Commission's struggle to obtain competences in international air transport. Stock market reactions to key events in the political conflict between 1995 and 2004 unravel whether investor beliefs about the distribution of power in the EU follow the basic conjectures of neo-functionalism, intergovernmentalism, or institutionalism. The event studies show that particularly judicial proceedings and the involvement of the ECJ send credible integration signals to financial markets. This supports the hypothesis that investors consider the subtleties of the EU's decision making apparatus carefully and only react to developments that definitively alter the political regime and thus also the market situation. These findings are in line with an institutionalist interpretation of a reform that has radically changed the international aviation regime.

Introduction

Chicago–Brussels is one of the aviation routes covered by the first 'Open Skies' agreement between the European Union (EU) and the United States of America. This agreement allows all European and American carriers to freely enter the markets between both territories. Chicago–Brussels, at the same time, metaphorically describes the journey that the international air transport regime has made since its 'take-off' after the Second World War. The 1949 Chicago Conference failed to build a multilateral framework, thereby creating a paradoxical industry: while crossing borders touches the very core of aviation, the regulatory regime was strictly built on national sovereignty. Yet, after having established a common air transport market in the mid-1990s, the European Commission started to fight for own competences in external aviation and the abolition of nationality barriers. Since its demands met the resistance of European Member States, a political conflict unfolded which the EU only managed to settle in 2004.

Political scientists have frequently focused on air transport to study the patterns and conditions by which the European Commission asserts its regulatory ambitions against

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1 national resistance (for example, Delreux, 2011; Dobson, 2010; Kassim and Stevens,
2 2010; Woll, 2006; O'Reilly and Stone-Sweet, 1998). We complement this literature by
3 scrutinizing how financial markets perceive political struggles over supranational liberal-
4 ization in Europe. We ask which events of the decade-long conflict on nationality
5 barriers in aviation credibly signalled regime change from the perspective of market
6 participants. Our aim, in other words, is to identify the actors that are able to influence
7 markets and in this way to unravel the theory that financial investors have about the
8 distribution of power at the supranational level. Integration theory provides conflicting
9 predictions in this regard. Intergovernmentalists expect that the decisions made by the
10 Council are the most relevant market signals. Neofunctionalists, conversely, anticipate
11 that the early agenda-setting efforts of the European Commission heralded a regime
12 change and thus led market participants to adapt their expectations. From the perspec-
13 tive of rational institutionalism, finally, investors should follow political conflicts in a
14 more detailed manner to identify events that alter the balance of power. The coalition of
15 the European Commission and the European Court of Justice (ECJ) can, according to
16 this theoretical vantage point, credibly signal a changing status quo despite national
17 resistance to Europeanization.

18 To test these conflicting expectations on the economic relevance of different EU
19 institutions, we rely on an event study design. In line with financial econometrics we
20 assume that share price fluctuations provide an unbiased measure of the extent to which
21 investors expect distributional effects from political signals. To see whether and how
22 investors adapted their expectations on the future profitability of European and Ameri-
23 can airline companies in response to the Commission's inroad into the extra-European
24 aviation market, we analyze the so-called 'abnormal returns' of airline shares as a
25 response to 27 crucial events that ultimately led to the regime change from Chicago to
26 Brussels. The findings suggest that investors' assessments of political conflicts over
27 European integration are in line with the interpretation of rational institutionalism.
28 While the initial agenda-setting efforts of the Commission and Council resistance
29 hardly affected investor expectations, the picture changed when the Commission started
30 to threaten the Member States judicially. The initiation and conclusion of infringement
31 procedures involving the ECJ conveyed meaningful information. Cumulated returns
32 additionally suggest that it is mainly investors of American and smaller European air-
33 lines that benefited from the final Commission success while a portfolio of the largest
34 EU carriers remained largely unaffected by the power struggle between Member States
35 and the supranational institutions. We thus conclude that financial market participants
36 closely track the subtleties of long-term EU politics, that they are aware of the immense
37 relevance of judicial strategies in European integration, and that their stock market
38 reactions provide a valuable data source for assessing the credibility of political moves
39 at the supranational level.

40 41 **I. Financial Markets and the Credibility of Political Signals on** 42 **European Integration**

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44 It is a truism that economics and the politics of European integration are strongly
45 interrelated. Nevertheless, the political science literature tends to focus on one side of this
46 relationship only. While the influence of economic preferences on politics drives most

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1 modern integration theories, the effects of supranational political events on the supposedly
2 affected markets rarely meet scholarly attention. But if political events are driven by
3 economic considerations, then economic responses should also reveal information about
4 political events.

5 Scholars frequently disregard such information, however, because the major economic
6 repercussions of political decisions take a long time to materialize. No airline adapts its
7 route network, merges with a competitor or goes bankrupt immediately after a politically
8 credible decision. Such responses may happen years later and many confounding factors
9 limit our ability to attribute economic effects to particular political actions. However,
10 short-term investor assessments provide a means to proxy the long-term consequences of
11 very specific political events and, in this indirect way, allow the social scientists to assess
12 which theory of political decision-making financial market participants predominantly
13 hold. This idea rests on two common assumptions made to explain financial market
14 behaviour. First, we need to understand financial assets as claims on real assets and the
15 future stream of income attached to them (Howells and Bain, 2001, p. 213). The current
16 value of airline shares, for example, should mirror the aggregate investor expectations on
17 the future profitability of this airline. Second, by and large financial markets are assumed
18 to be informationally efficient so that a share price reflects all publically available infor-
19 mation (Howells and Bain, 2001, p. 541; Fama *et al.*, 1969).



20 Investors are consequently assumed to act rationally in a Bayesian sense: new infor-
21 mation may update their beliefs about the future asset price. If the posterior belief is lower
22 than the prior one, an individual investor will wish to sell the respective asset; if it is higher
23 he or she will want to buy it. In the aggregate, the asset price will thus adapt immediately
24 if relevant information hits the market. These crowd reactions have two attractive ana-
25 lytical features: first, they allow us to tap into contemporaneous assessments as investors
26 can only act on the basis of the information available at the time; and second, they provide
27 politically unbiased assessments as investors are driven by economic self-interests.

28 Along these assumptions, economists have evaluated the distributional effects of a
29 myriad of regulatory changes (for example, Binder, 1985a; Lamdin, 2001). Political
30 scientists have more recently started to exploit financial market responses to study a broad
31 variety of political phenomena. Investor reactions were, for instance, used to assess the
32 economic consequences of anticipated partisan government (Füss and Bechtel, 2008) or
33 violent political conflicts (Schneider and Tröger, 2006). Yet, for questions of EU integra-
34 tion, this approach has hardly been utilized so far. An exception is the study of Bechtel and
35 Schneider (2010), which reveals that the defence industry gains significantly from politi-
36 cal moves towards a common European defence policy. Highlighting that investor reac-
37 tions vary over European Council meetings, Bechtel and Schneider demonstrate that
38 markets discriminate between intergovernmental summits that produce 'hot air' only and
39 credible political signals for further European integration.

40 This logic can be applied the day-to-day political struggles in Brussels as well. In fact,
41 asking which events send credible signals to markets directly relates back to core ques-
42 tions of integration theory. Who do markets think is in charge over the future course of
43 integration? Which political actions actually change investor expectations on the regula-
44 tory context of their investments? Integration theory holds vastly different answers.
45 Liberal intergovernmentalists, for example, argue that integration is a function of domes-
46 tic interests. We can only expect further integration if there is some bargaining space at the

1 intergovernmental level or if the more ambitious Member States are able to pay off the
2 more reluctant ones (Moravcsik, 1993). In this view, credible political signals come solely
3 from a changed aggregate position of Member States. Investors should thus react mainly
4 to Council meetings as only they reveal information on the pivotal political actors (*H1*).

5 Neofunctionalists, by contrast, would opt for a rather different investment strategy. In
6 their view, supranational institutions and particularly the Commission control powerful
7 agenda-setting strategies to overcome Member State resistance. Integration is thus set on
8 track once the Commission clearly articulates the will to move a particular regulatory
9 competence to the supranational domain (O'Reilly and Stone-Sweet, 1998). Especially in
10 sectors where some European competences already exist and spill-overs are likely, early
11 Commission commitments should be the most credible signals for investors (*H2*).

12 Rational institutionalists provide a more nuanced view on conflicts between the Com-
13 mission and the Council. They accept that Member States constrain the Commission in
14 principle, but argue that that the interplay of institutional set-up and preference constel-
15 lations can create supranational autonomy (Pollack, 1997). Essentially, these approaches
16 state that supranational actors may enact any policy as long as it is not vulnerable to
17 re-legislation by the Member States. They often focus on bureaucratic drift in areas where
18 certain legislative competences have been delegated already (Franchino, 2007). Yet, the  ¶
19 underlying logic also operates at the more fundamental level of the European  lies and
20 in areas where supranational responsibility is still in question. If the Commission can
21 credibly make the case that specific national competences violate the hard-to-renegotiate
22 treaty provisions, Member State resistance can be overcome. Thus, institutionalist schol-
23 ars emphasize the powers of the ECJ in interpreting primary law (for example, Tsebelis
24 and Garrett, 2001; Scharpf, 2010). Susanne Schmidt (2000) has theorized how the Com-
25 mission can exploit the judicial powers that the ECJ has created through the doctrines of
26 direct effect and supremacy of supranational law. If the Commission is able to win the
27 Court as an ally in treaty infringement procedures against individual reluctant Member
28 States, it effectively alters the fallback option and thus the Member State's preference
29 for a supranational reregulation of the regulatory competence in question (Woll, 2006).
30 This theory requires investors to follow the details of policy-making in Brussels more
31 closely, but the empirical implication is clear: If investors believe in this distribution of
32 power, particularly judicial actions and an alliance of the Commission and the ECJ send
33 credible signals to financial markets (*H3*). As we will see, the conflict on supranational
34 competences in external aviation has all the necessary ingredients to analyze these dif-
35 ferent expectations on the investors' assessments of political power in Europe.

36 **II. From Chicago to Brussels: The Conflict on Nationality Restrictions**

37 *The Chicago Regime and Its Transformation in Europe*

38
39
40 The international aviation regime dates back to the 1944 Chicago International Civil
41 Aviation Conference (Doganis, 2002, p. 30), which set different levels of market access
42 that governments reciprocally exchange on a route-by-route basis (Havel, 1997, pp.
43 35–40). Based on these 'Freedoms of Air', bilateral agreements became the prime source
44 of international air transport regulation. Importantly, third states have to be excluded from
45 such bilaterals along the nationality clause that carves the protectionist nature of the
46 Chicago regime into stone:

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1 Each [c]ontracting [s]tate reserves the right to withhold or revoke a certificate or permit
2 to an air transport enterprise of another [s]tate in any case where it is not satisfied that
3 substantial ownership and effective control are vested in nationals of a contracting [s]tate.
4 (Quoted in Havel, 1997, p. 52)

5 The bilateral provisions created a multitude of duopolies and oligopolies and accounted
6 for the perseverance of national flag-carriers and close government–airline relationships
7 all over the world. Nationality restrictions severely constrain airlines in building an
8 attractive route network and imply that majority changes in the ownership structure entail
9 the loss of indispensable traffic rights (Chang and Williams, 2001). For certain companies,
10 however, this regime was a boon rather than a handicap as it forestalled the entry of more
11 powerful competitors.

12 In the late 1970s the United States highlighted this protectionist potential when it
13 used nationality restrictions to enhance market access for its airline industry, which was
14 aching to exploit the increasingly efficient and large home market that domestic deregulation
15 had created (Doganis, 2001, pp. 23–5). Using this domestic market as bait and
16 starting with the Netherlands in 1978, the United States successfully offered a limited
17 number of additional gateways to small states whose flag-carriers were disproportionately
18 dependent on international connections. Belgium, Germany and other states followed
19 suit as they feared a diversion of traffic to Amsterdam’s Schiphol airport and the
20 American ‘divide-and-rule’ strategy on the basis of the nationality restrictions worked
21 out (Staniland, 1996, pp. 4–5).

22 Based on these successes, American airlines pushed their government into what was
23 termed ‘open skies’ bilaterals. The Netherlands were again the first willing partner in
24 1992. Other European governments did not give in so easily this time, but the American
25 administration threatened to withhold approval of alliances unless their governments
26 signed a revised bilateral (Doganis, 2001, p. 33). This threat was successful because
27 nationality clauses effectively forestalled airline mergers which left alliances as the only
28 way to benefit from larger networks, feeder traffic and code-sharing agreements (Chang
29 and Williams, 2001). Nine European governments immediately started to renegotiate, and
30 by 1998 Germany, France and Italy had signed new bilaterals (Doganis, 2001, p. 35). Only
31 the United Kingdom negotiations proved thorny since the British government refused
32 giving away access to Heathrow – the home base of British Airways and a hub that
33 profited from its geographic advantage and linked five continents. American competition
34 authorities repeatedly denied the alliance of British Airways and American Airlines in
35 turn, while other European carriers could conclude such agreements. With the help of
36 nationality clauses, and despite the liberal rhetoric surrounding them, the American ‘open
37 skies’ agreements reproduced the protectionist nature of the Chicago regime.

38 Nationality restrictions were more profoundly challenged in Europe. In particular, the
39 United Kingdom and the Netherlands mimicked American ‘tailor-made’ liberalization by
40 removing restrictions for their European feeder traffic so as to exploit it in the North
41 Atlantic market where it was protected against competitors (Morrell, 1998, pp. 44–5).
42 Both countries also supported the multilateral approach of the European Community,
43 which created a truly common air transport market by essentially requiring governments
44 to grant operating licenses if the airline is substantially owned and effectively controlled
45 by nationals of any EC Member State (Kassim, 1996, pp. 115–17). This concept of a
46 ‘Community carrier’ turned the Chicago regime upside down. For the first time in

1 international aviation, market entry was no longer dependent on nationality. As a conse-
2 quence, six new airlines emerged within three years, while frequencies, capacity and
3 routes increased steadily (Kassim, 1996, p. 125; Commission, 2007). Yet in the economi-
4 cally much more relevant long-haul markets beyond Europe, nationality clauses remained
5 untouched initially (Staniland, 1996).

6 7 *Brussels' International Liberalization Effort*

8 The ambition of the European Commission was, however, not confined to the internal
9 aviation market (Woll, 2006). Brussels' international campaign gained momentum when
10 the Santer Commission took the helm in 1995. With the formal backing of the College of
11 Commissioners, the new Commissioner for Transport, Neil Kinnock, urged the Member
12 States to cede any bilateral talks with the United States and claimed that nationality
13 restrictions might contradict EU law. As the governments ignored this request, the aviation
14 regime on extra-European routes entered the nine-year period of political uncertainty that
15 we are analyzing here.

16 The Council granted a Commission mandate against British opposition in 1996, but
17 limited it to soft rights such as ground-handling or maintenance (Doganis, 2001, p. 54).
18 Kinnock, however, repeatedly targeted the hard traffic rights, arguing that bilateral agree-
19 ments contradicted the division of labour in EU trade policy-making, and that they
20 discriminated on the grounds of nationality and were thus not in line with the Community
21 carrier principle (Woll, 2006, pp. 61–2; Staniland, 1999, pp. 17–8). These arguments
22 implied the abandonment of any remaining governmental sovereignty over the economic
23 fate of a nation's flag-carrier. Accordingly, Member States did not give in as made clear
24 by the ongoing German, French and Italian negotiations with the United States.

25 The Commission increased the pressure and took eight Member States to the ECJ,
26 arguing that nationality restrictions infringe the European treaties (Sorensen *et al.*, 2003,
27 pp. 7–8). The Dutch government deliberately joined the case in support of the other
28 Member States, and France, Italy and the United Kingdom kept negotiating with the
29 United States. Despite Member State resistance, however, the ECJ finally sided with the
30 Commission. The 'open-skies' rulings in November 2002 promoted a shared competence
31 in external aviation and, more importantly, rendered the nationality clauses incompatible
32 with EU law (Woll, 2006).

33 The Commission used this as a stepping stone and pushed further for the renouncement
34 of bilateral agreements. The Council ultimately surrendered by agreeing a reregulation of
35 extra-EU air traffic that prescribed the inclusion of a Community designation clause in
36 agreements with third states. It ultimately became law in April 2004, and European
37 flag-carriers as well as foreign airlines took off into future markets that were open to an
38 unprecedented degree of competition.

39 In sum, the conflict on external aviation relations has all the necessary ingredients to
40 test the predictions about the credibility of political signals on European integration. On
41 the one hand, the disputed regime change was clearly relevant for the economic fate of
42 European and American airlines so that investors should be automatically interested in
43 planned and realized policy developments. On the other hand, the outcome of this political
44 struggle, which involved intergovernmental decisions, supranational agenda-setting as
45 well as judicial actions, was highly uncertain and it is not obvious which political events

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1 between the initiation of the Commission strategy in 1995 and the reregulation in 2004
2 conveyed credible political signals.

4 **III. Research Design**

6 *Political Event Data*

7 To cover all publically visible events of the conflict in the period 1995–2004 we system-
8 atically analyzed the contents of the *Financial Times* (*FT*). Since the *FT* is the largest daily
9 newspaper with a Europe-wide outreach and maintains an American subsidiary, we are
10 confident of having identified all potentially relevant actions this way. A set of descriptive
11 keywords tracked down 384 articles that were coded along systematic instructions (see the
12 web appendix¹). We tested the reliability with a sub-sample of 160 articles; the inter-coder
13 agreement amounted to 86.25 per cent. Note that we ignored commentaries without
14 references to actual political events, repeated event reports as well as unilateral actions.

15 Table 1 lists the resulting 27 publically visible events that sent political signals in the
16 conflict on nationality restrictions in European air service agreements. The Commission
17 initiated most events, followed by the Council and the ECJ. The event sample, which
18 involves formal steps as well as negotiation tactics such as threats, captures the major
19 political turning points neatly.

21 *Airline Sample and Financial Data*

22 To test the market relevance of these events, we focused on airlines that had an operating
23 license as a Community carrier and were considered to be a flag-carrier of a European
24 Member State as indicated by the membership in the Association of European Airlines
25 (AEA) (Staniland, 1996). This resulted in two airlines in the United Kingdom and we
26 preferred BA over BMI as the latter only served two international destinations (AEA, 2004).

27 We further restricted the analysis to companies that were publicly listed throughout the
28 entire nine years studied as identified by the airline websites and the Worldscope database.
29 The web appendix presents the sample of European flag-carriers including Air France
30 (AFR), Alitalia (AZA), Austrian Airlines (AUA) British Airways (BAW), Deutsche
31 Lufthansa (DLH), Finnair (FIN), KLM of the Netherlands and Scandinavian Airlines
32 (SAS) in more detail. We are confident that no significant selection bias is present.²
33 However, varying free float – that is, the proportion of all actually tradable shares – has to
34 be noted. Indeed, governmental stakes in flag-carriers differ across companies and time.
35 This may induce limits on the variability of share prices, but poses no major problem as
36 our analyses focus on relative price changes only.

37 More importantly, the selected European airlines vary strongly in size and dependence
38 on extra-EU traffic and may thus react differently to the political conflict (see the online
39 appendix). Comparing the output of European carriers along their generated revenue
40 passenger kilometres, Air France, BA and Lufthansa accounted for about 53 per cent of
41 flag carrier output in 1995 and 2000, and raised their share beyond 55 per cent in 2004.

43 ¹ <http://onlinelibrary.wiley.com/doi/10.1111/jcms.12057/supinfo>.

44 ² A company's decision to issue shares may depend on its profitability so that more efficient companies are always
45 overrepresented in financial studies. Aer Lingus, Olympic Airways and Sabena were European flag-carriers not traded
46 publicly, while Iberia did not go public until 2001.

Table 1: Event Data

<i>Event ID</i>	<i>Date</i>	<i>Description</i>
<i>Agenda-setting</i>		
1	####	College of Commissioners backs the aggressive strategy of Transport Commissioner Kinnock
2	####	Council postpones decision on Commission mandate and demands report on economic consequences of extant American agreements
3	#####	Commissioner Kinnock urges British government to desist from American negotiations; first big Member State attacked
4	#####	College of Commissioners formally backs a proposal for a far-reaching aviation negotiating mandate
5	#####	Commission initiates legal investigations against six Member States having signed nationality-based aviation deals with the United States
6	#####	Transport Commissioner Kinnock repeats his position in front of the Air Transport Users Council in London
7	#####	Transport Council basically endorses Commission approach and demands an impact assessment
8	#####	Commission publishes report on economic consequences of bilateral open skies deals bolstering its political demands
9	#####	Transport Council agrees on a limited Commission mandate for negotiations with the United States
10	#####	Commissioner Kinnock admits that the new mandate will not yet unravel existing bilaterals, but that the Commission means to go further
11	#####	Commission officials begin talks with the United States in Washington, DC
12	#####	Commission threatens the United Kingdom with further legal investigations against a planned BAW-AA alliance that was a major American demand
13	#####	Commission pursues legal investigations further after failing to get a widened mandate from the Council
<i>Judicial action</i>		
14	#####	Commission sends reasoned opinions to Member States with open skies deals and the United Kingdom - formal initiation of judicial action
15	#####	Commission announces to file official ECJ cases after having finally lost yet another attempt to gather the full negotiation mandate
16	#####	Commission formally files the open skies suit against eight Member States
17	#####	Commission formally files a case against the renewed Dutch open skies deal
18	#####	ECJ/Advocate General recommendation: Nationality restrictions illegal, Commission mandate not necessarily needed
19	#####	Commission proposes legislation that would give it powers to renegotiate nationality restrictions in Member States' bilaterals
20	#####	Council/Coreper rules out the last stumbling blocks for an open skies mandate of the Commission
21	#####	Transport Commissioner warns the United Kingdom about continuing American talks and suggests that the ECJ will render them illegal
22	#####	ECJ announces its verdict in the open skies cases: Nationality restrictions are incompatible with European law
<i>Re-regulation</i>		
23	#####	Commission warns that unilaterally redrafting the American open skies agreements is illegal
24	#####	Transport Council grants the Commission mandate and agrees on a formal re-regulation of air service agreements
25	#####	Commission starts global campaign to convince foreign governments of the Community Carrier principle
26	#####	Council demands more concessions from the United States and prolongs the Commission mandate
27	#####	Council approves EP amendments and the re-regulation of EU air service agreements becomes law

Source: Authors' own calculations.

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1 The fourth largest competitor, KLM, produced another 10 per cent of the overall market
2 output. A similar pattern emerges for the geographical distribution of destinations. In
3 2000, more than 50 per cent of the destinations of Air France, BA and Lufthansa were
4 located outside of Europe. While KLM followed closely with about 40 per cent, the
5 extra-European share of the remaining European carriers was below 25 per cent. While
6 one can thus broadly distinguish large and small European airlines, existing in-depth
7 accounts of air transport regulation highlight that the competitive situation varied strongly
8 over individual companies and also over time (see Dobson, 2010; Kassim and Stevens,
9 2010). We thus refrain from over-interpreting the directions of specific event effects. To
10 assess its political credibility, we rather focus on whether a particular event had a statisti-
11 cally significant market impact at all.

12 American carriers were sampled if they served European destinations as confirmed by
13 traffic statistics, and if their shares were tradable throughout the investigation period. The
14 latter criterion was only fulfilled by two American airlines – American (AA) and Conti-
15 nental (COA).³ Specific generalizations to all American carriers thus have to be taken *cum*
16 *grano salis*, but both included carriers were earlier profiteers of the American policy and
17 were aching for more access to the European market.

18 We retrieved all financial time series from Thomson Datastream and merged them with
19 the event data; weekend events were moved to the following trading day. The final data set
20 consists of 2,554 trading days from 2 January 1995 to 14 May 2004.

21 22 *Analyzing Event Effects*

23 To test level effects in share prices on the basis of the assumptions outlined above,
24 econometrics offers the event study approach (MacKinlay, 1997; Binder, 1998). It focuses
25 *returns on financial assets* – that is, the relative price changes from one period to the next.
26 In line with the literature, we use *continuously compounded returns* multiplied by 100 so
27 that they present percentage points of continuous returns.

28 The fundamental idea of an event study is the distinction of estimation-windows and
29 event-windows, which allows us to conduct a quasi-experiment. A model of ‘normal’
30 returns is derived during the estimation window and statistically meaningful deviations
31 during the event window are then interpreted as ‘abnormal’ returns induced by the event
32 of interest. We resort to a simple market model of normal returns that relates a share’s
33 return to a corresponding market portfolio (Chandra *et al.*, 1990). By removing general
34 fluctuations of the relevant financial market, the variance of abnormal returns is reduced,
35 which in turn increases the ability to detect event effects. This approach is especially
36 appropriate for the airline industry as passenger demand is sensitive to the broader
37 economic developments in the country of origin (Doganis, 2002, pp. 196–7). To increase
38 the signal-to-noise ratio further, we additionally include the price changes of jet-grade
39 kerosene in Rotterdam and New York, respectively. As fuel accounts for approximately 12
40 per cent of airline cost (Doganis, 2002, p. 91), its price fluctuations explain variation in
41 daily returns on airline shares (Michel and Shaked, 1984). Finally, we include a control
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43 ³ United Airlines and Northwest did not issue publically tradable shares before 2004 and 2006, respectively. TWA faced
44 delisting several times before it ceased operations in 2001. Delta Air Lines and US Airways were publicly traded at certain
45 points during the investigation period, but we could not figure out the initial public offerings or potential interruptions.
46 Furthermore, Delta was operating under bankruptcy protection from 2004 onwards and US Airways was taken over by
47 American West and both were delisted.

1 variable to capture 9/11 and four consecutive trading days as the terrorist attacks had a
2 disproportionately negative impact on airline shares (Carter and Simkins, 2004).

3 We estimated several variants of this basic model. For each airline, we fitted the
4 regression with and without a constant, with either the home country's major blue-chip or
5 its major all-share index as the relevant market portfolio, and with either lagged or
6 contemporaneous market and kerosene regressors. The ordinary least squares (OLS)
7 estimations rely on interrupted estimation windows that exclude five trading days prior and
8 after the political events of interest, which leaves 1,954 daily observations. All of the 12
9 model combinations are plausible *a priori*, and our major consideration is solely the power
10 to detect abnormal returns so that we chose the setup that maximizes model fit for each
11 airline.

12 The canonical event study setup – focusing often on company specific events such as
13 announcements – simply subtracts the predicted normal return from the return during the
14 event period, averages these abnormal returns over companies and then tests the null
15 hypothesis of zero abnormal returns on the basis of the cross-sectional standard deviation.

16 For three reasons, the underlying assumption of identically and independently distrib-
17 uted residuals does not hold in the present context (Binder, 1985b, p. 371). First, the market
18 model estimations show differing residual variances across airline companies. Second, the
19 underlying economic fundamentals highlighted above lead us to expect that investors of the
20 individual airlines respond differently to the political signals so that positive and negative
21 reactions may be offset by averaging across firms (Lamdin, 2001, p. 173). And third, all
22 scrutinized airlines are subject to unobserved industry-wide developments and they all
23 experience the events of interest in the same calendar time leading to contemporaneously
24 correlated prediction errors (Brown and Warner, 1980). Particularly the latter point has led
25 scholars interested in the effects of regulatory announcements to parameterize the events
26 directly in the market model along a set of dummy variables and then estimate the system
27 of company equations jointly with generalized least squares (Binder, 1985b).

28 As well as enhanced efficiency of the event coefficients, the major advantage of this
29 approach lies in testing industry-wide event effects. Having jointly estimated the system
30 of company equations, post-estimation tests explicitly incorporate heteroskedasticity
31 across equations and contemporaneous correlation of the disturbances (Binder, 1985b, p.
32 372). This allows us to evaluate the *joint null hypothesis* that – given the observed set of
33 return effects in the individual return series – all abnormal returns during an event period
34 are in fact zero.

35 Given contemporaneous correlation and different independent variables across the
36 normal return estimations, we rely on the seemingly unrelated regressions (SURs) approach
37 (Zellner, 1962) to estimate the system of equations. The main analysis relies on an event
38 window that includes the event day and one consecutive trading day (0-E-1), which ensures
39 that the relevant information has spread among investors. Robustness checks, reported in
40 the web appendix, allow for leaked information by checking the 1-E-1 window, and account
41 for possibly slower information processing by testing the 0-E-5 window.

42 43 **IV. Results**

44 Table 2 presents the results of the system of seemingly unrelated regressions for the 0-E-1
45 window around the 27 events. Although daily share price returns present stationary and
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Table 2: Results for the 0-E-1 Event Window

	Larger European airlines			Smaller European airlines			American airlines			Joint test ARs = 0	
	AFR	BAW	DLH	AZA	AUA	FIN	KLM	SAS	AAL	COA	Chi ² (10)
<i>Agenda-setting</i>											
Event 1	1.084	-0.24	-0.538	-0.503	0.000	0.174	0.343	3.223	2.503	-0.346	3.826
Event 2	0.03	-5.766*	1.032	0.802	-0.571	1.8	-0.842	-0.627	0.132	-5.282*	11.316
Event 3	-0.695	1.196	-0.334	-0.524	-0.497	-0.45	0.278	-0.42	-2.252	-0.427	1.341
Event 4	4.686	0.03	-0.401	-1.172	-6.636***	0.88	-0.632	1.58	0.351	1.068	22.250*
Event 5	1.328	-0.373	-0.44	0.143	1.405	2.108	0.34	0.964	-1.307	-1.514	2.509
Event 6	0.762	-0.48	0.717	-1.888	0.604	0.16	-0.081	0.809	-1.108	1.14	2.110
Event 7	0.39	-0.234	0.172	0.82	1.419	0.27	0.306	-0.25	0.961	-0.147	1.207
Event 8	-0.385	-0.647	0.44	5.267*	-0.048	-0.151	-0.001	0.001	-0.309	1.48	8.441
Event 9	-4.024	0.106	-4.355**	2.104	0.464	0.89	-1.57	-0.964	0.419	0.825	11.223
Event 10	-0.718	0.053	0.657	-1.209	-1.658	-0.115	0.08	-2.01	0.04	-0.671	2.246
Event 11	4.543	0.988	-0.363	-3.046	2.812	0.349	-1.669	-1.094	1.168	1.678	9.960
Event 12	-0.33	-0.043	-0.822	-2.913	1.416	-0.798	-0.685	-0.663	-0.957	-0.029	3.384
Event 13	-1.003	-0.211	0.567	0.988	0.65	1.158	-0.991	0.051	0.417	1.029	1.435
<i>Judicial action</i>											
Event 14	-0.644	-0.715	3.912*	0.28	5.621***	0.331	-1.298	0.607	0.424	-0.284	20.090*
Event 15	1.998	-3.413	-3.346*	-6.22**	1.279	-7.712**	-0.327	0.169	-0.668	-3.116	26.163**
Event 16	-0.143	2.24	-0.567	0.349	5.154**	2.541	1.407	-1.395	1.059	2.193	13.621
Event 17	0.297	3.03	-0.828	-0.497	-2.197	0.655	2.806	-0.075	1.747	0.106	6.716
Event 18	0.097	-4.15	-0.225	-0.667	3.053	0.048	4.596*	0.912	-2.527	-1.544	14.157
Event 19	-1.117	0.039	-0.062	0.412	2.765	0.149	1.525	-1.473	3.565	2.019	6.271
Event 20	0.856	3.665	-1.429	1.273	-0.298	0.261	-0.04	-0.639	3.371	2.51	5.047
Event 21	6.139*	2.985	0.261	5.331**	5.844***	-6.551*	4.296*	-1.149	2.945	3.89	36.743***
Event 22	-6.01*	-4.961	2.218	0.312	-0.738	-0.292	-0.812	2.37	14.068***	9.749***	44.634***
<i>Re-regulation</i>											
Event 23	1.483	1.582	1.564	-1.288	1.946	-0.385	0.838	-2.023	-2.167	-2.82	5.838
Event 24	3.368	5.218	0.772	2.029	0.568	0.632	11.021***	2.159	2.771	-0.341	41.221***
Event 25	-2.585	0.605	-1.24	-2.031	0.122	1.617	3.39	3.425	-0.393	-0.494	9.488
Event 26	-2.778	-3.154	1.42	-0.706	0.205	-0.928	-2.382	-3.867	-2.184	-1.366	8.390
Event 27	-1.654	-0.332	-0.699	-0.302	1.756	0.291	-1.461	1.998	0.351	-0.231	4.621
Market return	0.664**	1.207***	0.785***	0.767***	0.837***	0.301***	0.694***	0.392***	1.694***	1.614***	-
Kerosene return	-0.048	-0.051	-0.036	-0.029	-0.022	-	-0.06*	-	-0.098***	-0.031	-
Nine-Eleven	-7.384***	-7.186***	-4.27***	-1.919	-4.213***	-1.151	-3.695**	-8.127***	-8.455***	-11.668***	-
Constant	-0.055	-0.017	-	-0.063	-0.043	-0.018	-0.032	-0.009	-0.062	-0.012	-
R ²	0.067	0.109	0.248	0.128	0.175	0.028	0.176	0.064	0.195	0.203	-
Chi ²	155.717***	281.467***	766.06***	352.317***	501.911***	67.345***	476.594***	156.727***	593.236***	630.491***	-

Source: Authors' own calculations.
 Notes: Breusch-Pagan test of independence in residual across equations: Chi²(45) = 884.035***. Coefficients from a system of seemingly unrelated regressions and the test results for the null hypothesis that the individual ARs are jointly zero. * p < 0.05; ** p < 0.01; *** p < 0.001.

1 highly volatile data, the overall model parameters build sufficient trust (lower panel). The
2 proportion of explained variance is reasonable as compared to other financial market
3 studies. As assumed earlier, the residuals of the individual estimations are correlated (see
4 web appendix). This holds especially for the two American airlines but also the residuals
5 of British Airways, Deutsche Lufthansa, KLM and partly Air France seem to form a
6 cluster. An SUR estimation is thus justified.

7 Before turning to event effects, the second-lowest table panel presents the market
8 models. Indeed, all airlines shares are sensitive to a market portfolio representing the
9 economic climate of their home country. The short-term price changes in jet-grade
10 kerosene increased the model fit for all except Finnair and SAS, but this control variable
11 mostly does not exert statistically significant effects. Despite being close to zero in almost
12 all cases, the kerosene returns exhibit negative signs which is possibly explained by
13 hedging strategies of airline companies (Michel and Shaked, 1984) but cannot be pursued
14 further here. Finally, the control variable for the 9/11 terrorist attacks underscores that
15 airline shares were disproportionately affected even where the overall market downturns
16 are already controlled for (Carter and Simkins, 2004). Taken together, the models seem to
17 reasonably capture the normal return-generating process so that we can turn to the conflict
18 on supranational competences in international aviation.

19 Let us start with the agenda-setting phase in the upper panel of Table 2 when the
20 conflict involved Commission and Council only. Apparently, the markets received little
21 economically relevant information from these early developments. We find only very few
22 statistically meaningful deflections in individual return series. For example, investors of
23 British Airways (BAW) and Continental Airlines (COA) valued the Council demand for
24 an economic report on existing bilaterals negatively (event 2). Alitalia (AZA) investors
25 profited when that report was published a few months later (event 8), while Lufthansa
26 shareholders lost somewhat more than 4 per cent when the soft rights mandate was granted
27 to the Commission (event 9).

28 Beyond these very limited and specific reactions, however, the last column suggests
29 that the markets as a whole were relatively unimpressed by the conflict's initiation. During
30 the agenda-setting phase we can reject the null hypothesis that all observed abnormal
31 returns are in fact zero only for event 4. It was a credible signal for investors that the whole
32 College of Commissioners formally backed the supranationalization of external aviation
33 relations. All other informal agenda-setting moves and threats of the Commission,
34 however, as well as the number of consecutive Council meetings did not convey economi-
35 cally meaningful information. These results speak against the assumptions that investors
36 follow either an intergovernmentalist or a functionalist reading of the integration process
37 and rather suggest that they are sensitive to detailed formal steps if they are sensitive at all.

38 This institutionalist understanding is particularly emphasized if one looks at the 'judi-
39 cial action' phase in the following panel. Here we can observe much more pronounced
40 market reactions. Markets considered the initiation of a formal European infringement
41 procedure as a credible political signal when the Commission sent out reasoned opinions
42 to the reluctant Member States in March 1998 (event 14). The Commission announcement
43 to formally involve the ECJ seven months later likewise sent a credible signal for regime
44 change in external aviation relations of the EU (event 15). The joint abnormal returns
45 during the formal transmission of the files to the ECJ (event 16) and the recommendation
46 of Advocate-General Tiziano (event 18) only barely fail to reach statistical significance.

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1 Yet, at this stage investors could not be sure yet whether the ECJ would actually take side
2 with the Commission. But when Transport Commissioner De Palacio self-assuredly
3 suggested that the ECJ will follow her demands just two weeks before the scheduled
4 judgement (event 21), investors – especially those of European airlines – valued this as
5 another strong signal for regime change. The reactions to the actual ECJ verdict in
6 November 2002 (event 22), however, sent the most convincing message to markets that
7 the regulatory context of their investment will be altered. Investors of American airlines
8 in particular received new information they deemed to be relevant for their allocative
9 decisions.

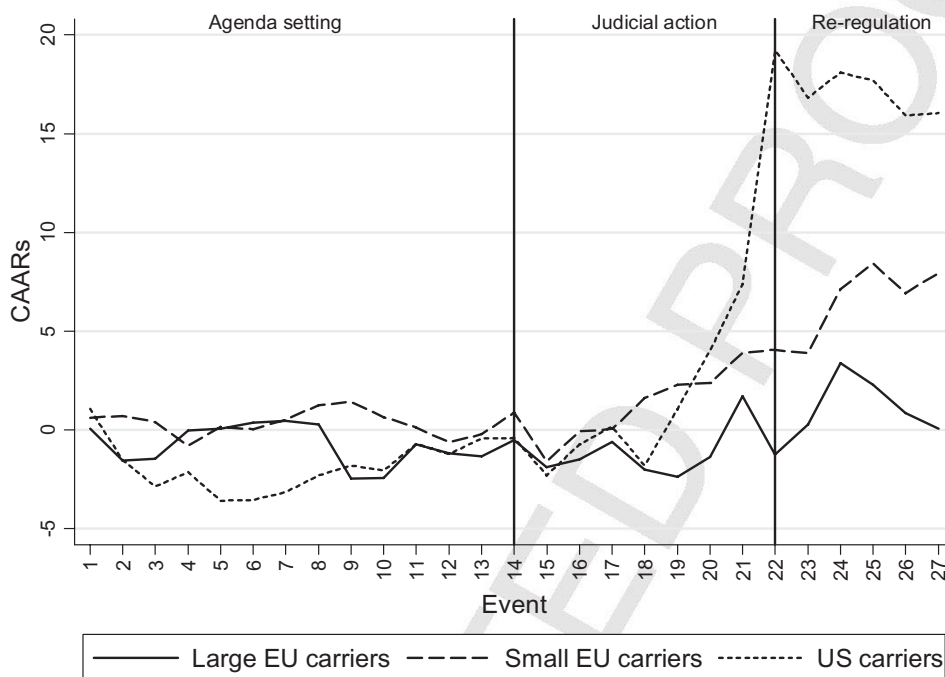
10 The final signal that led to aggregate and statistically meaningful investor reactions
11 during the reregulation phase was the formal surrender of the Council in June 2003 (event
12 24) that paved the way for a Commission mandate and a formal reregulation of supranational
13 competences in the external aviation relations of the EU. Afterwards, individual
14 Commission moves (event 25) or the final signature under the newly established balance of
15 powers (27) could not add any additionally relevant information for market participants.

16 In summary, the results strongly suggest that markets follow a rational-institutionalist
17 reading of political conflicts over European integration. From all 27 publicly visible
18 events during the conflict over external aviation relations, the judicial action phase and
19 particularly those events that signalled an alliance of Commission and ECJ were perceived
20 as the most convincing indications for an economically relevant change of the regulatory
21 context. Investors seem to be aware of the nuanced strategies that the extant institutional
22 framework provides for supranational actors wanting to overcome national resistance. In
23 contrast, the unilateral actions of the Commission or the Member State governments were
24 not as important economically as the functionalist or intergovernmentalist readings of
25 integration process would suggest. The various agenda-setting efforts of the Commission
26 and the Council meetings were of little relevance for financial markets. Such events only
27 became credible once the ECJ was in the game.

28 Robustness checks support this reading (see web appendix). First, we allow for early
29 information leakage by including one pre-event day. The formal Commission decision
30 (event 7), the initiation of the judicial proceedings (15), the announcement of and the ECJ
31 verdict itself (21 and 22), as well as the final Council surrender (24) are robust to this
32 changed setup. Only the submission of reasoned opinions (event 8) closely misses statistical
33 significance, while two early signals from both the Council and the Commission are
34 additionally picked up (events 7 and 10). Second, we allow for possibly delayed market
35 responses by a window that includes five post-event days. This extended period contains
36 more noise and thus has a lower power to detect event effects. The confident anticipation
37 of the ECJ judgment by the Commission (event 21) as well as the verdict itself (22) are
38 again identified as economically relevant political signals in this setting.

39 The relevance of judicial integration strategies is also underlined if we look more
40 closely at which political events affected market anticipations lastingly. To this end, we
41 consider a hypothetical investor who held airline shares only during the political events.
42 This cumulative perspective enables us to see which events created lasting abnormal
43 returns that were not depleted by later political signals (Figure 1). We consider portfolios
44 of the large EU carriers (AFR, BAW, DLH), their smaller competitors (AZA, AUA, FIN,
45 KLM, SAS) and the two American carriers (AAL, COA). Initially, this shows that
46 abnormal returns on the shares of European carriers fluctuate around zero without lasting

Figure 1: Cumulative Average Abnormal Returns Over All 27 0-E-1 Event Windows



Source: Authors' own calculations.

gains during the agenda-setting phase. The American portfolio lost slightly from early Commission and Council interaction (events 1 and 2), but the overall balance during the first conflict stage is also close to zero in the end.

The picture changes dramatically during the judicial action phase. Starting from the ECJ's advocate opinion (event 18), investors of small European and especially of American airlines would have generated substantial and lasting returns. This perspective highlights furthermore that the confident Commission announcement of the ECJ judgement and especially the verdict itself (events 21 and 22) were of particular importance for market participants and generated returns that did not have to be written off during later conflict stages.

Shifting to the reregulation phase, all portfolios reacted positively to the final Council surrender (event 24), but these returns persisted only for investors of smaller European competitors. When the reregulation of air service agreements settled the political conflict on nationality restrictions in the end (event 27), we find a clear picture on how financial markets valued the political outcome. Investors expected that the regime change was particularly positive for the profitability of investments in American airlines as evident in a cumulative gain of 16.04 percentage points above normal market variation. The smaller European airlines came out second; respective investments increased by 7.94 percentage points throughout all events that made up the conflict. The portfolio containing the three big European players, in contrast, would have ultimately produced no significant gains or losses during the overall set of political events (0.07 percentage points). Company-specific

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1 uncertainties during the final stages of regime change – for example, on British Airways’
2 exclusive access to Heathrow, the looming merger between Air France and KLM, or
3 Lufthansa’s search for possible acquisitions – may explain this result. This reminds us that
4 interpreting that distributive effects across airlines has to be taken with caution as the
5 competitive environment of individual companies and thus their preference for Commis-
6 sion success varied over time (Dobson, 2010; Kassim and Stevens, 2010). However,
7 independent from the actual direction of return effects, the analysis of cumulative port-
8 folio returns once more underlines that the economically most relevant political signals
9 came from the judicial strategies that enabled the Commission to overcome Member State
10 resistance in co-operation with the ECJ.

11 Conclusions

12 Theorists of political integration are still at loggerheads with each other over the empirical
13 relevance of intergovernmentalist, neofunctionalist or institutionalist explanations of com-
14 petence transfers and decision-making in the EU. In this study, we have evaluated how
15 financial markets assess the distribution of power between the European Commission and
16 the Member States. Exploiting the fact that financial investors have substantial incentives
17 to ‘read’ the economic relevance of political signals correctly, we uncovered the pattern of
18 market reactions to the political conflict on nationality restrictions in the European airline
19 industry. Our event study shows that investors considered ECJ support for the Commis-
20 sion plans as the most credible signal that regulatory changes were imminent and that
21 the airlines’ profitability would be affected by the attempts to reshape the international
22 aviation regime. Early agenda-setting efforts of the Commission and intergovernmental
23 signals, in contrast, provided hardly any systematic market reactions.

24 This pattern cannot be explained by the basic conjectures of neofunctionalist and
25 intergovernmentalist theory alone, but it is in line with a rational-institutionalist reading of
26 integration. Our analysis in particular supports Schmidt’s (2000) argument that the Com-
27 mission can break Member State resistance if it is able to attack the respective national
28 competences with treaty infringement procedures. Market participants seem to understand
29 that a re-negotiation of the underlying treaty provisions is not very likely and that thus a
30 successful alliance of the Commission and the ECJ herald regime change in hitherto
31 nationally regulated sectors. Our quantitative case study on these contemporaneous
32 market reactions is thus also consistent with extant in-depth policy analyses that
33 re-construct the influence of the Commission–ECJ alliance along archival or interview-
34 based research (Dobson, 2010; Kassim and Stevens, 2010, p. 169; Woll, 2006). More
35 broadly, the repeatedly uncovered relevance of judicial proceedings aligns with calls for
36 more research into the political preferences that drive decision-making in the ECJ.

37 On the most general level, the results presented here suggest that financial markets
38 carefully consider the signals that the decision-making process in the EU emits. Investors
39 follow the subtleties of day-to-day decision-making and mainly consider those signals to
40 be economically relevant that alter the market of interest and thus the profitability of
41 individual firms. Temporarily disaggregated analyses like the one presented here highlight
42 more generally that political science can exploit the tools advanced in financial econo-
43 metrics. In sectors with more easily predictable effects of regulatory choices – think of
44 recent European regulations in the banking or in the tobacco sector – it will identify losers
45
46

1 and winners of power transfers to Brussels more clearly. Financial markets shed light on
2 the redistributive effects of policy decisions and thus enable us to evaluate the credibility
3 of political signals for or against European integration.
4

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44 Additional Supporting Information may be found in the online version of this article at the
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46 Web Appendix: ••

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