

4 Determinants of EU integration

The challenges facing the EU, as described in [Chapter 3](#), will require political leaders and the European citizenry to follow through on the commitment made in the *Solemn Declaration of European Union* to produce “an ever closer union among the peoples and Member States.”¹ On the economic front, a deepening of integration will enhance the advantages of the EU’s internal market (yet to be completed) and protect its members against external and domestic shocks by creating symmetry across the regions. Politically, a deeper union will legitimize governance of a more united EU and bring its institutions closer to the people. Such deepening of political integration will also provide protection against nationalistic outlooks that favor a dissolution of the Union which became a potential reality with Britain voting to leave the EU. At the same time, political union will go a long way in legitimizing the EU as a true global actor. AQ1

One could argue that perhaps creating the Economic and Monetary Union prior to completion of the Common Market (Single Market) was premature, but external systemic challenges pushed European leaders to make that decision. Subsequent monetary union among some of the states further created division within the Union and created a two-track Europe. When we add to this the very slow pace of political union, the future of regional integration looks quite shaky. As some economists would say, “monetary union without a political union would not work.”² It only takes one major financial crisis to bring that monetary union down like a house of cards. The EU is currently working hard to ensure that will not happen by pushing ahead with new formulas for fiscal coordination that blend its supranational and intergovernmental decision-making mechanisms. Yet, ordinary citizens rarely possess ample information on the EU, its institutions, or its policies. In other words, while the EU knows a lot about its citizens through extensive surveys, the same cannot be said the other way around.

In light of these challenges, this chapter analyzes the determinants of European integration, from 1980 to the present, to determine which factors are important at which stage of integration. We also extend our analysis timeline to 2021 in an effort to determine what factors are needed, and to

46 what degree, for the EU to achieve further integration and perhaps full political
 47 union. We will use the modified power transition theory developed in
 48 [Chapter 2](#). The theory predicts that integration will develop when there is
 49 power asymmetry among regional partners that are also satisfied with the
 50 status quo. We modified the theory by specifying the heart of the satisfaction
 51 variable, namely value convergence, and introducing trust as an important
 52 factor. The remainder of this chapter will describe the variable operational-
 53 ization and test the hypotheses. Afterwards, we will use our model outcomes
 54 to determine what degree of power asymmetry, value convergence, and trust is
 55 needed for further integration.

57 **Modeling**

58
 59 For our dependent variable, regional integration, we use the Integration
 60 Achievement Score (IAS).³ IAS provides a measure of deepening of integra-
 61 tion in the EU and the data of 2016 are taken as constant until 2021. Given
 62 Brexit, we also assume for estimation purposes that the UK will leave the EU
 63 in 2019. The IAS codes the level of integration in a given year using six cat-
 64 egories of institutionalized cooperation among two or more countries using
 65 information found in the implemented treaties. Coding is sensitive to the fact
 66 that obligations often take time to implement. Therefore, coders conduct a
 67 yearly monitoring of actual implementation. The categories are liberaliza-
 68 tion of trade in goods and services, degree of capital mobility, degree of labor
 69 mobility, level of supranational institution importance, degree of monetary
 70 policy coordination, and degree of fiscal policy coordination. Each category
 71 has a value of 0 (low) through 5 (high) and is coded using a Guttman scale
 72 (see [Appendix A](#) for explanation of variable measurement). When we look
 73 at the level of integration in the EU, it is clear that this is a two-track process.
 74 Those members that are in the Eurozone are more integrated than others
 75 that are only in the economic union.

76 For the operationalization of the independent variables, we use hierarchy,
 77 values convergence, and trust in the EU. As discussed in [Chapter 2](#), for
 78 power transition theory, hierarchy, which is based on the relative power
 79 of each state, is an important variable for system stability and promoting
 80 cooperation and integration. To approximate the degree of hierarchy within
 81 the EU, we construct the following simple measure that scores the relative
 82 impact of the dominant nation (Germany) on the largest members of the
 83 integrated EU community:

$$84 \quad \text{Hierarchy}_{EU} = \frac{\text{German GDP}}{\text{Sum of remaining EU member states' GDPs}} \quad (4.1)$$

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 87 As [Figure 4.1](#) indicates, Germany has been the dominant nation but its statu-
 88 s has been on a steady decline over time as other members of the EU
 89 have increased their relative power. However, one of the bigger factors in
 90 the decline of German power asymmetry is the expansion of membership.

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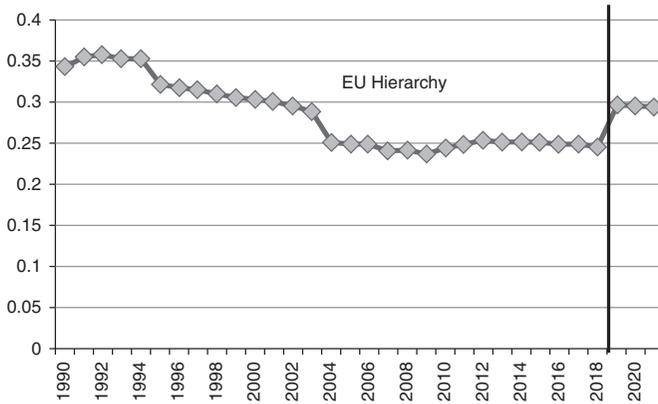


Figure 4.1 EU Hierarchy with German Leadership.

The grand eastern enlargement in 2004 added eight new continental members of various sizes and two small Mediterranean islands. With Brexit, we project a slight increase in Germany’s dominance in the hierarchy once again. The EU demonstrates that power preponderance is useful but not a precondition for stability—it is merely one condition for peace. Satisfied nations whose values are converging can maintain a lasting and profitable peace.

The second independent variable for integration is the convergence of social values. As previously explained (see Chapter 2), we use this variable as an indicator of satisfaction with the status quo. Given the role of Germany in the EU hierarchy, we measure convergence towards its values. As the largest economy, Germany has the ability to use its economic influence to direct the process and progress of integration. However, this capacity will be limited by how far its values are from those of the other member states. Therefore, we measure value convergence by calculating the distance of Germany’s values from those of other EU member states based on I-W values indices. Recall that the I-W indices capture two value dimensions: materialist–postmaterialist values on one axis and traditional–secular on the other (see Chapter 2). All survey data used for calculating value convergence come from various years of World Values Surveys (WVSs). For 2017, we use estimates as the seventh wave of the WVS has not been completed. To do this, we used moving averages for previous survey years to project values for materialist–postmaterialist and traditional–secular values for each EU member state in 2017. We then took 2017–2021 as constant to estimate the values data to match estimates for hierarchy and trust in the EU.

The value convergence variable is calculated by using a Euclidean distance formula and measures the distance of materialist-post-materialist and

136 traditional–secular values between two countries:

$$137 \quad d = \sqrt{(X_a - X_b)^2 + (Y_a - Y_b)^2} \quad (4.2)$$

139 where; X represents the country’s value on the traditional–secular axis and
140 Y represents the country’s value on the materialist–post-materialist axis.

141 The statistical model that is utilized in the analyses focuses on value con-
142 vergence towards Germany. This variable centers on the value distances of
143 all the EU countries towards Germany. The value convergence variable is
144 abbreviated as “VcGer” in the formula(s) and is calculated using a modified
145 version of [equation 2](#):
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$$147 \quad VcGer_{Ger,j} = \sqrt{(X_{Ger} - X_j)^2 + (Y_{Ger} - Y_j)^2} \quad (4.3)$$

148 Values generated by [equation 3](#) are high when values are *divergent*. Since
149 the variable needs to measure *convergence*, and to better interpret the results
150 of our statistical analysis, we need to transform the values by multiply-
151 ing each by -1 . The higher, transformed, values can now be interpreted
152 as having higher convergence. Theoretically, when countries are closer to
153 each other in terms of values (convergence), the level of cooperation or
154 integration is expected to increase.
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156 Value convergence with the regional leader and a select sample of mem-
157 ber states is depicted in [Figure 4.2](#) using pre-transformed values: the larger
158 the number, the less observed value convergence. According to this figure,
159 among the major EU countries, France is the closest country to the leader
160 in terms of values. After France, Spain and Italy have near values with
161 Germany. Compared with these three, the UK and Poland fall farther away
162 from the leader. Over time, we are witnessing greater convergence among
163 the larger EU member states.
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165 The third independent is the amount of trust citizens of member states
166 have towards the European Union. Like value convergence, this variable
167 also helps us gauge the amount of member state satisfaction with status quo.
168 Data come from various years of the Eurobarometer surveys. The Euro-
169 barometer survey responses are a rich source of information regarding EU
170 citizen views on European integration because of the frequency of repeated
171 questions. By aggregating the respondents’ answers to the national level, we
172 are able to follow trends in our timeframe.

173 Unfortunately, the survey series does not ask the ideal question, “How
174 much trust do you have in the EU?” for the entire time series of our analysis.
175 As a result, we selected questions that can best approximate this question
176 and capture the latent value of trust in the EU. There are questions regarding
177 trust in various EU institutions. We believe that the institution that is at the
178 epicenter of European integration in the minds of citizens is the European
179 Commission. It not only drives the enforcement of EU laws and regulations
180 – thereby being the face of Europe – it also introduces the legislation for

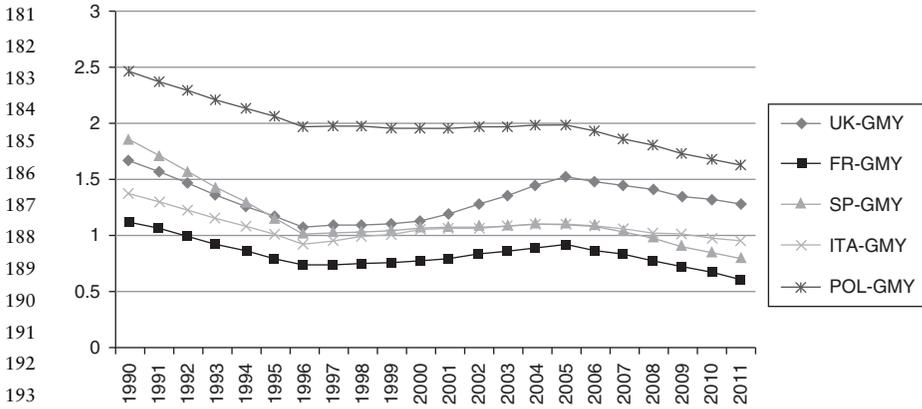


Figure 4.2 Values Convergence with the Regional Leader (Germany).

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European Council and Parliament deliberations. The question that asks how much the respondent trusts the European Commission fills in the 2002–2016 data points.

The earlier data points (1973–2001) used another question, which we believe also approximates trust in the EU. The survey series asks the respondent if membership in the EU (or the European Community if it is an early survey) is a good thing, a bad thing, or neither good nor bad. This question has been used in various analyses that attempt to explain general support for European integration.⁴ Public support for integration is highly correlated with trust because support for integration is generally perceived when trust is present.⁵

The only annual data points that are missing are country values for 1998. For this year, we linearly interpolate these values. For the countries that are extrapolated, these two measures correlate at 67 percent for the overlapping period. Adjusting commitment to the status quo by levels of trust to anticipate the degree of support for integration is a path we wish to follow to clarify intra-EU relations.

For the operationalization of trust variable in our model, we calculate the variable, Trust towards the European Commission (TrustEC), by a trend function which utilizes the least squares method to calculate the line of best fit for a supplied set of y- and x- values. We further estimated TrustEC for 2017–2021 assuming high trust, a normal moving average, and low trust. Figures 4.3a–c display the trend of TrustEC using survey data points and extrapolation into the future using our normal, low trust, and high trust assumptions. The first figure (4.3a) plots the values for the French respondents only. The overall trend is negative. The optimistic scenario assumes an increase of 5 percent annually and the pessimistic scenario assumes a 5

226 percent decline per year. The scenarios produce expected up-ticks in the opti-
227 mistic scenario, flat-lining in the extrapolated moving average (or normal)
228 scenario, and further dipping in the pessimistic scenario. The pessimistic
229 is particularly alarming given that we estimate that approximately only a
230 quarter of the French population will have trust in 2021.

231 **Figure 4.3b** displays the data for Germany, as well as the EU average. The
232 two trend together, while German values are lower and then converge over
233 the past four or so years. The overall trend shows steady values, relatively
234 speaking, in the first half the graph followed by a negative trend in the
235 second half. Our worst-case scenario show a decline to about a third of
236 the EU population voicing trust by 2021. The best case has about half the
237 population having trust, with the moving average inching a bit higher to
238 about 40 percent.

239 **Figure 4.3c** repeats the values of 4.3a and also includes the EU averages.
240 In the first half of the graph, the French were trending higher than the aver-
241 age but then converge in the early part of the twenty-first century. Unlike the
242 German case, the French case shows considerably lower values than the EU
243 average in each of our three scenarios. This may indicate stronger resistance
244 to further integration because even our optimistic scenario has trust levels
245 well below 50 percent in 2021.

246 In sum, it is apparent that the level of trust in the EU fell significantly
247 during and since the last financial crisis and recovered to its pre-crisis level
248 in 2015. However, the overall trend is a steady decline since 2003. This
249 raises another concern for EU integration, that of legitimacy. Several fac-
250 tors can be identified that result in low democratic citizen trust: problems of
251 legitimacy, recession, mistrust, anti-EU propaganda of nationalist political
252 parties, and negative attitudes towards migration. It is true that European
253 integration has proceeded in a rather peculiar way, one characterized as an
254 elite exercise, by those often detached from their respective constituencies
255 in member states. As discussed in [Chapter 3](#), developments on the ground
256 make it clear that it cannot continue this way. In the early years, the polit-
257 ical elites set the agenda. Big business elites joined them in the late 1970s
258 and 1980s as these powerful individuals lobbied the Delors Commission to
259 complete the Common Market. However, it was not until the Lisbon Treaty
260 that citizens' participation took the stage with the European Citizens Initia-
261 tive (see [Chapter 1](#)). In addition, referendums in France and the Netherlands
262 that failed to ratify the now defunct Constitutional Treaty clearly indicate
263 that ignoring and/or not positively influencing public opinion is a great cost
264 for present and future efforts to integrate.

265 We next analyze the relationship between integration and the three
266 independent variables to test the following hypotheses:

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268 H_1 : Hierarchy is positively related with deepening of integration in
269 the EU.

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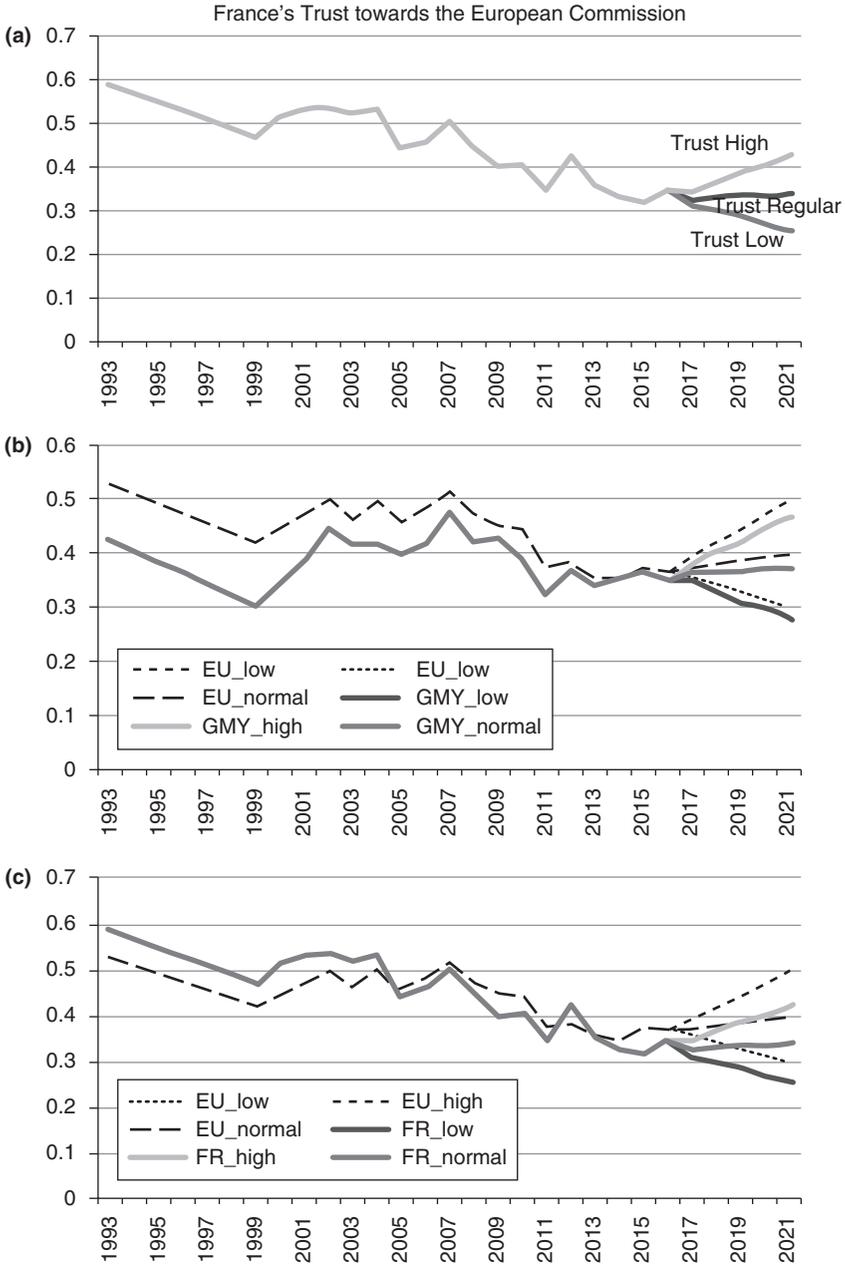


Figure 4.3 (a) Trust in the European Commission (French Respondents). (b) German and EU Average Trust in the European Commission. (c) French and EU Average Trust in the European Commission

316 H₂: Convergence around regional leader's values leads to deepening of
 317 regional integration.

318 H₃: Trust in the EU is a determinant of regional integration. Higher trust
 319 leads to more integration between member states.
 320

321 The model we use considers three variations of Trust in the EC – normal,
 322 low, and high trust assumptions, as discussed earlier in this chapter.
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325 **Regression results**

326 Our dependent variable, level of European integration (IAS), is bounded by
 327 the values of zero through five, with calculations producing fractions. The
 328 nature of integration, however, produces long periods of several years when
 329 there are no changes in the IAS's value. The result is a stepwise plot where,
 330 for example, the EU would be a common market for many years before
 331 stepping up in its IAS score when it becomes an economic union. This is
 332 apparent in our historical overview of the EU's evolution (see [Chapter 1](#) and
 333 [Figure 2.8](#) in [Chapter 2](#)). As a result, the variable takes on the characteristics
 334 of a categorical variable.
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336 When the dependent variable is categorical, the ordinary least squares
 337 (OLS) method can no longer produce the best linear unbiased estimators;
 338 that is, OLS results will be biased and inefficient. Instead, the categorical
 339 dependent variable regression models (CDVMs) provide sensible ways of
 340 estimating parameters. Unlike the OLS, the CDVMs are not linear. This
 341 nonlinearity results in difficulty presenting the output of the CDVMs. In the
 342 CDVMs, the left-hand side (LHS) variable is neither interval nor ratio, but
 343 categorical. However, the right-hand side (RHS) could be linear function
 344 of independent variables as in the OLS. The CDVMs often depend on the
 345 maximum likelihood (ML) estimation method, whereas the OLS uses the
 346 moment-based estimation method.⁶

347 The best choice would be to use the multinomial regression method. This
 348 method assumes categorical equivalency among the various stages of inte-
 349 gration. The estimations, therefore, attempt to predict the likelihood of any
 350 one stage of integration given the levels of our observed independent vari-
 351 ables. Below, we provide three different multinomial regression results for
 352 EU integration using the observed EU trust levels and our three sets of
 353 trust level projections (normal, low, and high). Both the observed and the
 354 projected values are the aggregations of European citizen beliefs in each
 355 member state.
 356

357 *Model 1 estimate – with trust projected at normal trend levels*

358
 359 Model 1 tests the relationship between integration (IAS dependent variable)
 360 and value convergence on Germany, trust towards the EU, and regional

361 Table 4.1 Parameter Estimates for Model 1

362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384
<i>Integration</i>	<i>Achievement</i>	<i>Independent</i>	<i>B</i>	<i>Std.</i>	<i>Wald</i>	<i>Sig.</i>	<i>Exp (B)</i>	<i>95% Confidence</i>														
<i>Score (IAS)^a</i>	<i>Variables</i>			<i>Error</i>				<i>Interval for Exp</i>														
							<i>(B)</i>															
		Intercept	-21.77	11.57	3.54	0.060																
1.16 (Free Trade Area)	Value	0.018	0.019	0.83	0.361	1.02	0.980-1.06															
	Convergence																					
	TNormal Trust	-0.311	0.178	3.06	0.080	0.733	0.517-1.04															
	Hierarchy	1.147	0.431	7.07	0.008	3.15	1.35-7.33															
	Intercept	-58.37	10.58	30.43	0.000																	
2.67 (Customs Union)	Value	0.005	0.010	0.202	0.653	1.01	0.99-1.03															
	Convergence																					
	TNormal Trust	0.177	0.038	22.08	0.000	1.19	1.101-1.29															
	Hierarchy	1.758	0.370	22.59	0.000	5.80	2.81-11.97															
	Intercept	-15.04	8.68	3.00	0.083																	
3.17 (Common Market)	Value	0.015	0.007	4.90	0.027	1.02	1.00-1.03															
	Convergence																					
	TNormal Trust	0.049	0.024	4.21	0.040	1.05	1.00-1.10															
	Hierarchy	0.713	0.340	4.41	0.036	2.04	1.04-3.97															
	Intercept	-27.19	8.97	9.18	0.002																	
3.50 (Economic Union)	Value	0.019	0.008	5.71	0.017	1.02	1.00-1.04															
	Convergence																					
	TNormal Trust	0.105	0.031	11.40	0.001	1.11	1.05-1.18															
	Hierarchy	0.983	0.345	8.11	0.004	2.67	1.36-5.26															
	Intercept	-6.14	8.69	0.499	0.480																	
3.83 (EMU)	Value	0.033	0.007	21.03	0.000	1.03	1.01-1.05															
	Convergence																					
	TNormal Trust	0.039	0.024	2.73	0.099	1.04	0.993-1.09															
	Hierarchy	0.480	0.340	1.99	0.158	1.62	0.83-3.15															

385 Notes:

386 ^aThe IAS reference category is 0.00.

387 Classification of each IAS category (denoted by the IAS number) is an approximation of the
388 corresponding level of regional integration.

389
390 hierarchy. Table 4.1 presents the results of the multinomial regression. We
391 estimated projections for each variable until 2021 using forecasts for GDP,
392 hierarchy, and trust. For trust in the EU we estimated post-2016 data points
393 based on the moving average of time series data from 1980-2016 for each
394 member state. The model gives a Cox and Snell pseudo-R² of 58.5 and
395 Nagelkerke pseudo-R² of 64.1 percent respectively and the Likelihood Ratio
396 Tests are significant at 0.000 for all variables.

397
398 (Model 1) : $IAS_{1980-2021} = VC_{Ger} + Trust_{EC_normal} + Hier_{Ger}$ (4.4)
399

400 These results show that at the earlier stage of integration, the only variable
401 that is significant is German leadership (hierarchy). This is consistent with
402 the power transition argument that a leader (regional or global) must be
403 present to promote cooperation between the participating states. Hierarchy
404 continues to be a significant factor until the deepening of integration reaches
405 the level of EMU. At that point (IAS = 3.83), which is deepest level of

Table 4.2 Parameter Estimates for Model 2 (Low Trust in EU)

<i>Integration Achievement Score (IAS)^a</i>	<i>Independent Variables</i>	<i>B</i>	<i>Std. Error</i>	<i>Wald</i>	<i>Sig.</i>	<i>Exp (B)</i>	<i>95% Confidence Interval for Exp (B)</i>
1.16 (Free Trade Area)	Intercept	-24.73	14.03	3.10	0.078		
	Value	0.014	0.018	0.610	0.435	1.01	0.979-1.05
	Convergence						
2.67 (Customs Union)	Low Trust	-0.312	0.168	3.44	0.064	0.732	0.527-1.02
	Hierarchy	1.20	0.513	5.47	0.019	3.32	1.22-9.08
	Intercept	-58.25	10.53	30.58	0.000		
3.17 (Common Market)	Value	0.005	0.010	0.229	0.632	1.01	0.985-1.03
	Convergence						
	Low Trust	0.167	0.036	21.34	0.000	1.18	1.10-1.27
3.50 (Economic Union)	Hierarchy	1.78	0.367	23.52	0.000	5.92	2.89-12.14
	Intercept	-15.75	8.58	3.36	0.067		
	Value	0.015	0.007	4.82	0.028	1.02	1.00-1.03
3.83 (EMU)	Convergence						
	Low Trust	0.050	0.024	4.36	0.037	1.05	1.00-1.10
	Hierarchy	0.739	0.334	4.88	0.027	2.09	1.09-4.03
3.83 (EMU)	Intercept	-27.35	8.85	9.54	0.002		
	Value	0.019	0.008	5.55	0.019	1.02	1.00-1.04
	Convergence						
3.83 (EMU)	Low Trust	0.101	0.030	11.38	0.001	1.11	1.04-1.17
	Hierarchy	0.999	0.340	8.65	0.003	2.77	1.40-5.29
	Intercept	-6.096	8.59	0.504	0.478		
3.83 (EMU)	Value	0.032	0.007	20.85	0.000	1.03	1.02-1.05
	Convergence						
	Low Trust	0.030	0.024	1.56	0.212	1.03	0.983-1.08
3.83 (EMU)	Hierarchy	0.494	0.335	2.18	0.14	1.64	0.851-3.16

Note:^aReference point for IAS is 0.00.

integration attained by some of the EU members thus far, hierarchy loses its effect on integration, indicating that it is now more important for the leader and other member states to project a collective effort to push for deeper integration (political union).

Convergence of values with Germany becomes significant around mid-level integration, the customs union, and continues to be an important factor for deepening of integration. This is an important result since it suggests the need for value convergence to the regional leader as integration deepens over time.

Finally, trust in the EU becomes crucial as soon as integration moves from the early stage of trade agreement into the customs union. However, given the current steady decline in citizens' trust in the EU, the last stages of integration, EMU and beyond, do not show this variable being very significant ($\text{sig} = 0.099$). In other words, falling trust levels are not helpful for predicting the deepening of integration.

451 **Model 2 estimate – with trust projected at low level projection**

452 In Model 2, we look at how IAS would be affected if trust towards EU
 453 among citizens continues to decline (Low Trust). The results can be found
 454 in [Table 4.2](#).
 455

$$456 \quad (\text{Model 2}) : IAS_{1980-2021} = VC_{Ger} + Trust_{EC_low} + Hier_{Ger} \quad (4.5)$$

457
 458 Model 2 also has the Likelihood Ratio Tests significant at 0.000 for
 459 all variables and a Cox and Snell pseudo-R² of 59 percent and Nagelkerke
 460 pseudo-R² of 64.5 percent. The results are similar to findings in Model 1.
 461 Hierarchy is important in the early stages of integration and drops out at
 462 the EMU and beyond levels of integration. Convergence of values is a sta-
 463 tistically significant factor in the mid-level of integration and continues to
 464 exert significant and positive effect on integration at higher levels of inte-
 465 gration. On the other hand, if trust were to decline more than the current
 466 level seen (Model 1), it has no impact on integration. Without trust in the
 467 EU by their citizens, it would be terribly difficult for member states' political
 468 leaders to push for the deepening of integration and attain the next stages
 469 of political union.
 470

471 **Model 3 estimate – with trust projected at higher levels**

472
 473 In Model 3, we reversed the projection in the previous model and estimated
 474 the improvement of member states' trust levels by 5 percent per year until
 475 2021. This should show how the IAS might be affected if decline in trust
 476 towards the EU is replaced by increased trust among citizens. [Table 4.3](#)
 477 shows the results of the regression model.
 478

$$479 \quad (\text{Model 3}) : IAS_{1980-2021} = VC_{Ger} + Trust_{EC_high} + Hier_{Ger} \quad (4.6)$$

480
 481 Model 3 has a Likelihood Ratio Tests that are significant at 0.00 for the
 482 variables and Cox and Snell and Nagelkerke pseudo-R² of 57.8 and 63.3
 483 percent respectively. Under these conditions, our findings show that hierar-
 484 chy is important in the early stages of integration and phases out towards
 485 the deeper stage of EMU and beyond – again consistent with the power
 486 transition argument. Value convergence shows its impact at IAS of 3.17, at
 487 the customs union stage, and continues to be an important factor at later
 488 levels of integration. Unlike models 1 and 2, trust in the EU is significant
 489 at the EMU stage. This indicates that an improved trust level is also very
 490 important for achieving EMU and political union.
 491

492 **Conclusion**

493
 494 The findings of these models are quite telling. For the EU to move beyond
 495 its current challenges and achieve stable and successful fiscal and political

Table 4.3 Parameter Estimates for Model 3

<i>Integration Achievement Score (IAS)^a</i>	<i>Independent Variables</i>	<i>B</i>	<i>Std. Error</i>	<i>Wald</i>	<i>Sig.</i>	<i>Exp (B)</i>	<i>95% Confidence Interval for Exp (B)</i>
1.16 (Free Trade Area)	Intercept	-21.54	10.94	3.88	0.049		
	Value	0.020	0.021	0.913	0.339	1.02	0.979–1.06
	Convergence						
	High Trust	-0.285	0.175	2.65	0.103	0.752	0.534–1.06
2.67 (Customs Union)	Hierarchy	1.16	0.410	7.98	0.005	3.18	1.43–7.11
	Intercept	-58.11	10.73	29.32	0.000		
	Value	0.006	0.011	0.286	0.593	1.01	0.985–1.03
	Convergence						
3.17 (Common Market)	High Trust	0.154	0.035	18.92	0.000	1.17	1.09–1.25
	Hierarchy	1.78	0.377	22.37	0.000	5.95	2.84–12.46
	Intercept	-14.42	8.81	2.68	0.102		
	Value	0.016	0.007	4.97	0.026	1.02	1.00–1.03
3.50 (Economic Union)	Convergence						
	High Trust	0.048	0.024	4.08	0.044	1.05	1.00–1.10
	Hierarchy	0.691	0.346	3.99	0.046	2.00	1.01–3.93
	Intercept	-25.56	9.08	7.92	0.005		
3.83 (EMU)	Value	0.020	0.008	5.90	0.015	1.02	1.00–1.04
	Convergence						
	High Trust	0.080	0.029	7.45	0.006	1.08	1.02–1.15
	Hierarchy	0.967	0.352	7.55	0.006	2.63	1.31–5.24
	Intercept	-6.06	8.822	0.492	0.492		
	Value	0.033	0.007	21.24	0.000	1.03	1.02–1.05
	Convergence						
	High Trust	0.048	0.024	4.17	0.041	1.05	1.00–1.10
	Hierarchy	0.461	0.347	1.77	0.183	1.59	0.804–3.13

Note:^aReference point for IAS is 0.00.

union, trust in the EU must improve among the citizens. Convergence of values among Europeans also shows that there are indeed emergent European values and that convergence on these values goes a long way in promoting the deepening of integration in the EU. Finally, hierarchy is important in the early stages of integration as a leader is essential in providing the guidance and public goods for pulling everyone together. However, as power asymmetry declines through either bringing in new members and/or improvements in the member states' economies, hierarchy and the ability of the regional leader to provide resources for public goods stops being a significant factor for the deepening of integration. The regional leader is needed for the early institutional construction to establish the framework of future integration. As integration shifts to greater political cohesion, convergence of values and trust are more necessary for further development of common policies and the supranational quality of institutions.

With these results, we next turn our attention to examining how EU member states compare in their preferences on key policy challenges and what might be the potential outcome of their future negotiations over these issues.

541 This is followed by an analysis of how the EU fares in competition with
542 other giants on the world stage and an examination of what EU leaders
543 need to do if they want to make their Union a stable, strong, and capable
544 global power.

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586 **Appendix A**

587 **A. *Integration Achievement Score (coding system)***

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589 **1. *Trade in Goods and Services***

590 0 = No agreements made to lower tariffs and non-tariff barriers

591 1 = Preferential Tariff Agreement

592 2 = Partial Free Trade Area

593 3 = Full Free Trade Area

594 4 = Customs Union (Common External Tariffs)

595 5 = No barriers between member countries

596

597

598 **2. *Degree of Capital Mobility***

599 0 = No agreements made to promote capital mobility

600 1 = Foreign Direct Investment allowed in limited form

601 2 = Capital withdrawal allowed

602 3 = Full access for foreign investment and capital withdrawal, except
603 for national government procurement

604 4 = Full capital mobility expect for large-scale mergers and acquisitions

605 5 = Full capital mobility without restriction

606

607 **3. *Degree of Labor Mobility***

608 0 = No agreements made to promote labor mobility

609 1 = Right of movement granted for select professions

610 2 = Full right of movement

611 3 = Transferability of professional qualifications granted

612 4 = Transferability of pensions and other retirement devices

613 5 = Full freedom of movement

614

615

616 **4. *Level of Supranational Institution Importance***

617 0 = No supranational institutions

618 1 = Establishment of nominal institutions

619 2 = Information gathering and advisory role

620 3 = Ability for institutions to amend proposals

621 4 = Ability for institutions to veto proposals

622 5 = Supranational institutions operate as primary decision node

623

624

625 **5. *Degree of Monetary Policy Coordination***

626 0 = No monetary policy coordination

627 1 = Consultation regarding policy

628 2 = Commitment to maintain parity

629 3 = Coordinated interventions

630 4 = Regional Central Bank establishment

631 5 = Single currency

632

633 6. *Degree of Fiscal Policy Coordination*

634 0 = No fiscal policy coordination

635 1 = Consultation regarding policy

636 2 = Commitments regarding deficit spending and taxation

637 3 = Sanctions regarding breaking commitments

638 4 = Uniform tax code

639 5 = Single budget

640

641 Each category has a value of 0 (low) through 5 (high) along a Guttman

642 scale:

643

644
$$IAS = \frac{\sum_{i=1}^6 C_i}{6} \tag{.7}$$

645

646

647 **B. Hierarchy**

648

649 Hierarchy is one of the independent variables used in the multinomial
 650 regression model. This variable measures the difference between the relative
 651 power of a regional leader and of other states in the EU. We take Germany
 652 as the regional leader of the European system. Consequently, Hierarchy vari-
 653 able points out the relative power difference between Germany and the rest
 654 of the member states of the EU. We take the GDP (in purchasing power
 655 parity) of states and calculate hierarchy in the following way:

656

657
$$Hierarchy = \frac{GMY}{EU_{rest} \text{ (from the date they joined)}} \tag{.8}$$

658

659 Data for Hierarchy comes from the International Monetary Fund, World
 660 Economic Outlook Database (April 2016). The higher the Hierarchy, the
 661 higher the capability of the regional leader over the other states in the region.
 662 If Hierarchy declines, it is an indication that the power gap between the
 663 regional leader and other countries is decreasing.

664

665

666 **C. Value Convergence**

667

668 The distance of values between two countries is called "value convergence."
 669 This variable is calculated by measuring the Euclidean distance between the
 670 points on the values vectors, which can be seen on the values map. The X-
 671 axis represents the Traditional–Secular Values, and the Y-axis displays the
 672 Materialist–Postmaterialist Values on the map. Value Convergence (value
 673 distance) of Country a and Country b is calculated as follows:

674

675
$$Value\ Convergence_{a,b} = \sqrt{(X_a - X_b)^2 + (Y_a - Y_b)^2} \tag{.9}$$

	trust_low	trust_high
2014	.	.
2015	.	.
2016	.	.
2017	= trust_normal × 0.95	= trust_normal × 1.05
2018	= trust_normal × 0.90	= trust_normal × 1.10
2019	= trust_normal × 0.85	= trust_normal × 1.15
2020	= trust_normal × 0.80	= trust_normal × 1.20
2021	= trust_normal × 0.75	= trust_normal × 1.25

The statistical model that is utilized in the analyses focuses on value convergence towards Germany. This variable centers on the value distances of all the EU countries towards Germany. This value convergence indicator is abbreviated as “VcGer.” Value Convergence towards Germany (VcGer) is calculated as follows:

$$VcGer_{Ger,j} = \sqrt{(X_{Ger} - X_j)^2 + (Y_{Ger} - Y_j)^2} \quad (.10)$$

Value Convergence data is multiplied by -1 after being calculated. Since this variable is about distances between value points, when countries are closer to each other in terms of values, the level of cooperation or integration is expected to increase. Therefore, the value distance between countries and the level of integration have an inverse relationship. This inverse relationship would create a negative coefficient for Value Convergence in statistical tables and can be confusing for the audience when interpreting the results. As a result, Value Convergence calculations are multiplied by -1 ; the meaning of the conception is preserved: the higher the level of value convergence between countries, the higher the level of cooperation/integration. Multiplying the calculation results of Value Convergence has no effect on the weight of the variable. Therefore, this procedure does not affect the coefficients of the statistical results. It only changes the sign of VcGer to $(+)$ from $(-)$.

D. Trust Estimation

There are three estimation variables for Trust after 2016. These are trust_normal, trust_low, and trust_high. Trust_normal is calculated via Excel’s Trend function. The Trend function is adjusted to take into account the previous four years of data for every estimated year. The other two estimations are based on trust_normal; trust_low and trust_high are calculated in Excel as follows:

Trust_low and trust_high calculations are designed to create an opening fork around the normal estimation to capture any fluctuation in future Trust.

Notes

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AQ1. Please carefully check the accuracy of names and affiliations.