Attitudes towards Italian Mafias Scale (AIMS): Development and validation

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In two studies we aimed at developing the Attitude towards Italian Mafias Scale (AIMS). In study 1 (N=292) we used an Exploratory Factor Analysis to reduce the number of the items and explore their latent constructs. In study 2 (N=393) we performed a Confirmatory Factor Analysis on the resulting 18-item questionnaire, whose latent structure was best identified by a general factor Mafia Attitude and three specific factors related to Behaviors, Cognitions and Emotions-Cognitions towards mafias. Moreover, we showed that the AIMS has i) discriminant validity compared to a measure of attitudes towards crime, ii) predictive validity of donation behavior to an association against mafias, iii) internal consistency, and iv) invariance for people of the five deep-rooted mafia regions of Southern Italy and those from the rest of Italy. Finally, we observed a difference between the participants from the five deep-rooted mafia regions (i.e., Apulia, Basilicata, Calabria, Campania, Sicily) and the rest of Italy, with the former having surprisingly more negative attitudes towards mafias compared to the latter. The AIMS might help to reliably survey people's sentiment towards Italian mafias and promote targeted and effective law-related education interventions.

1 **Manuscript Title**

2 Attitudes towards Italian Mafias Scale (AIMS): Development and
3 validation

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Abstract

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21 Mafias Scale (AIMS). In study 1 (N=292) we used an Exploratory
22 Factor Analysis to reduce the number of the items and explore their
23 latent constructs. In study 2 (N=393) we performed a Confirmatory
24 Factor Analysis on the resulting 18-item questionnaire, whose
25 latent structure was best identified by a general factor Mafia
26 Attitude and three specific factors related to Behaviors, Cognitions
27 and Emotions-Cognitions towards mafias. Moreover, we showed
28 that the AIMS has i) discriminant validity compared to a measure
29 of attitudes towards crime, ii) predictive validity of donation
30 behavior to an association against mafias, iii) internal consistency,
31 and iv) invariance for people of the five deep-rooted mafia regions
32 of Southern Italy and those from the rest of Italy.
33 Finally, we observed a difference between the participants from the
34 five deep-rooted mafia regions (i.e., Apulia, Basilicata, Calabria,
35 Campania, Sicily) and the rest of Italy, with the former having
36 surprisingly more negative attitudes towards mafias compared to
37 the latter.
38 The AIMS might help to reliably survey people's sentiment

39   towards Italian mafias and promote targeted and effective law-
40   related education interventions.

42   **Introduction**

43   According to article 416-bis of the Italian Criminal Code (the "La
44   Torre law", 1982) mafias are organizations "of three or more
45   people who make use of the power of intimidation afforded by the
46   associative bond and the state of subjugation and criminal silence
47   (corresponding to the Italian term *omertà*) which derives from such
48   a bond to commit crimes, to acquire directly or indirectly the
49   management or control of economic activities, concessions,
50   authorizations or public contracts and services, to gain unjust
51   profits or advantages for themselves or for other to prevent or
52   obstruct the free exercise of the vote and to obtain votes for
53   themselves or others during elections".
54   Although historically linked to Sicily, the term *mafia* can be
55   applied to criminal organizations that developed in Southern Italy
56   and that share the characteristics outlined above.
57   We can identify four mafia-like organizations, each developed in a
58   specific region of Southern Italy, and named: Cosa Nostra in Sicily,
59   'Ndrangheta in Calabria, Camorra in Campania, and Sacra Corona
60   Unita in Apulia. In a fifth southern region, Basilicata, a less
61   powerful and more recent mafia is represented by a network of
62   clans called Basilischi (Pantaleone, 2003). Despite being strictly
63   linked to other mafias from geographically contiguous regions (i.e.,
64   'Ndrangheta from Calabria and Camorra from Campania), the
65   Basilischi have been judicially acknowledged as a mafia (2007 and
66   2012 sentences by the Court of Potenza). Thus, here, we included
67   this mafia too in what we refer to as deep-rooted mafia regions
68   (DRMR).
69   Because of its pervasiveness and strong control over a given
70   territory, where it competes with the State (Sciarrone, 2009), the
71   mafia phenomenon has an extraordinary impact at economic, social
72   and political levels (Allum et al., 2019). For example, the presence
73   of mafia has dramatic social and economic costs for the above
74   mentioned regions and for Italy more broadly: in the period from
75   2013 to 2017 mafias have been responsible for the 9% of the
76   homicides committed over the national territory
77   (https://www.istat.it/it/files/2018/11/Report_Vittime-omicidi.pdf),
78   about half of non-domestic/non-intimate homicides, and more than
79   70% of the homicides related to systemic violence (Aziani, 2022).

80   Moreover, mafia-like organizations gained 15.9 billion euros in
81   2015 only (Savona & Riccardi, 2015), and their presence in two of
82   the deep-rooted mafia regions hampered the potential economic
83   development of 16% GDP per capita (Pinotti, 2015).
84   Crucially, despite the increasing number of associations and
85   initiatives against them (Cinotti, 2015), in the last decades mafias
86   have been spreading outside their territories of origin, involving
87   northern Italian regions (e.g., Lombardy, Piedmont), as well as
88   European (e.g., Germany, The Netherlands) and extra-EU
89   Countries (e.g., Canada, Australia) (Calderoni et al., 2016).
90   According to a report of 2014, just the 'ndrangheta counts as many
91   as 60,000 associates spread in 30 countries all over the World
92   (https://demoskopika.it/wp-content/uploads/2021/03/CS-
93   Ndrangheta-Spa.pdf).
94   Traditionally, mafias mainly made use of violence, intimidation
95   and subjugation to penetrate into and control their territories.
96   However, in the last 25 years, after the strong reaction of the State
97   to the murders of judges Giovanni Falcone and Paolo Borsellino,
98   mafias realized that it was more advantageous to establish mutually
99   useful relationships with the population, especially professionals
100   whose skills can be exploited to make profits (Sciarrone, 2014;
101   Allum et al., 2019). The collaborative degree of these relationships
102   can go from mere "complicity" (a una tantum economic
103   transaction) to "collusion" (a continuous exchange), and even reach
104   a sort of "co-penetration", whereby the people involved (but un-
105   affiliated to mafias) identify with and act as members of the clan
106   (Sciarrone, 2011). Another way through which mafia-like
107   organizations can exert their control is by appropriating the cultural
108   values of the territories where they are present, and then convince
109   the population that they represent those values (Travaglino &
110   Abrams, 2019). In doing so, they can gain legitimization, support
111   and, importantly for the present research, elicit favorable attitudes
112   (Travaglino & Abrams, 2019). In fact, as posited by the seminal
113   work by Fishbein and Ajzen (1977), one fundamental factor that
114   explains people's behavior is their attitude, i.e., a favorable or
115   unfavorable evaluation towards the object of that behavior (Eagly
116   & Chaiken, 1993). Thus, we argue that the thriving of mafia-like
117   organizations might be eased by the positive attitude expressed by
118   part of the population.

119

120   *Attitudes and their measures towards mafia, criminal organizations*
121   *and crime*

122	Along the decades scholars have proposed different models
123	regarding attitudes structure: for instance, the "Multi-attribute
124	Measurement Model" by Fishbein (1963) views an attitude as the
125	summation between a certain belief of the attributes of the
126	attitudinal object and the evaluation of those attributes. In the
127	"Vector Model" by Calder and Lutz (1972) attitudes occupy a two-
128	dimensional space made of an affective and a cognitive component.
129	Extending these two-component models, the most prominent
130	framework of attitudes structure comprises tripartite models,
131	whereby attitudes consist of an affective, a cognitive, and a
132	behavioral component (Rosenberg, et al., 1960). The most known
133	of these models is the ABC model by Eagly & Chaiken, for which
134	the affective component refers to feelings and emotions, the
135	cognitive component refers to beliefs, and the behavioral
136	component to behavioral intentions towards the attitudinal object
137	(Eagly & Chaiken, 1998, 2007).
138	In many research fields attitudes have been measured through
139	qualitative as well as quantitative methods, and research on crime
140	and mafia make no exception (e.g., Iacolino et al., 2017; Sarno,
141	2014; Travaglino et al., 2016). Surveys and questionnaires might be
142	particularly useful as they are easy to administer to large numbers
143	of people, straightforward to understand, and give standardized
144	results. Unfortunately, due to its contextual specificity, research
145	and tools for measuring people's attitudes towards Italian mafias
146	have been lacking. Travaglino and colleagues (2014, 2016) used a
147	set of items to measure the mediating role of the attitudes towards
148	Camorra (the Campania regional variation of mafia) in the relation
149	between masculine and honor ideology and collective actions
150	against Camorra itself. Although their measure displayed a good
151	reliability, it has not been subjected to psychometric validation, and
152	thus may not turn out to be the best tool for measuring attitudes
153	towards mafias. In a similar vein, different associations against
154	mafias periodically administer useful and relevant surveys but
155	without submitting them to a proper validation procedure (see, for
156	instance, Della Ratta-Rinaldi et al., 2012).
157	Measurements of the attitudes towards other illegal phenomena
158	(e.g., drinking and driving, Sprang, 1997), anti-social behaviors,
159	and attitudes towards crime in general are somewhat more reliable,
160	as they underwent to proper systematization and psychometric
161	validation. One of the first and widely employed measures is the
162	"Criminal Sentiment Scale" (CSS; Gendreau et al., 1979), which
163	consists of five subscales assessing the attitudes towards different
164	crime-related entities (i.e., law, court, police, tolerance towards

165 violations and identification with criminal others). In a similar vein,
166 the "Measure of Criminal Attitudes and Associates" (MCAA, Mills
167 et al., 2002) is a two-part questionnaire that asks people to indicate
168 whether and to what extent their important others are criminals
169 (part 1), and a series of attitudes towards criminal other themselves,
170 violence, entitlement (i.e., a person's sentiment to obtain whatever
171 they want) and anti-social intent (part 2). A more general approach
172 is instead employed in the "Attitudes towards Crime Scale" (ACS;
173 Ortet-Fabregat & Pérez, 1992), which measures the attitudes
174 towards three distinct dimensions, namely the i) causes, ii)
175 prevention and iii) treatment of crime. It is worth mentioning also
176 the "Psychological Inventory of Criminal Thinking Styles" (PICTS,
177 Walters, 2007), which assesses the eight thinking styles that are
178 thought to support and reinforce the four behavioral patterns of
179 criminal activity specified by the "Lifestyle Criminality Screening
180 Form" (LCSF, (Walters, White, & Denney, 1991). However, none
181 of the above instruments are tailored for the specific mafia
182 phenomenon, which, due to the involvement of cultural, social, and
183 political elements, differs from "classic" criminality. Moreover,
184 although spread in different geographical contexts, mafia is a
185 typical Italian phenomenon, which needs to be dealt with primarily
186 within its context of origin.
187 With this in mind, this research aims at filling this gap by
188 developing a reliable and psychometrically valid instrument for
189 measuring the attitudes towards Italian mafias (AIMS). Such a tool
190 could help researchers and policymakers to grasp the sentiment of
191 the Italian population and promote ad hoc interventions to reduce
192 the support for mafia-like organizations and their extremely
193 negative societal consequences. To achieve this objective we
194 conducted two studies, each with specific aims:
195 in Study 1 we aimed at reducing the number of the items generated
196 in a previous stage and exploring the latent structure of the scale; in
197 Study 2 the main purpose was to confirm the scale's structure
198 explored in Study 1. In addition, we aimed at cross-validating the
199 scale by testing i) its discriminant validity against the revised
200 version of the Criminal Sentiment Scale (CSS; Gendreau et al.,
201 1979; Shileds & Simourd, 1991); ii) its criterion predictive validity
202 in relation to donating real money to an association against mafias;
203 iii) its measurement invariance in participants born in the five deep-
204 rooted mafia regions (DRMR; i.e., Apulia, Basilicata, Calabria,
205 Campania, and Sicily) and participants born in the rest of Italy.

206

MATERIALS AND METHODS

Items Generation

To create the items of the AIMS we used a deductive method, also known as "classification from above" (Hunt, 1991 in Boateng et al., 2018), whereby we reviewed the existing literature on Italian mafias in different research fields (e.g., psychology, sociology, investigative journalism, law, history, etc.). Moreover, we asked two psychologists working for the Police and with experience with mafia criminals to review the content of the items. As the point of reference in research on attitudes, we developed our scale based on the framework comprising tripartite models of attitudes (Eagly & Chaiken, 1998, 2007; Rosenberg et al., 1960). Thus, we created items referring to the emotional (i.e., emotions), cognitive (i.e., thoughts and beliefs), and behavioral (i.e., behavioral intentions) components.
The initial pool of 76 items consisted of at least twice the number of items of the expected scale (see Supplementary materials for the complete list) in accordance with the suggestion by Schinka and colleagues (2012).

STUDY 1

Participants

We recruited 292 Italian participants (190 females; M_{age} = 30.90 years old, SD_{age} = 11.36) from a convenience sample collected through a snowball procedure. Fifty-five participants (18.8%) were born in Apulia, Basilicata, Calabria, Campania and Sicily, (i.e., the five regions classically associated to the presence of mafia-like criminal organizations), the other 237 (81.2%) in the rest of Italy. Three respondents (1%) had a middle school diploma, 60 (20.5%) a high school diploma, 174 (59.6%) a bachelor's or master's degree, 36 (12.3%) a doctoral degree or a master post-lauream, and 6 (2.1%) had other diplomas. On a scale ranging from 0 to 100 participants' mean self-reported socio-economic status was 48.81 (SD = 17.22).

Measures

Attitude towards Italian Mafias Scale (AIMS): the scale consisted of 76 items to which participants were asked to express their disagreement or agreement on a response scale ranging from 1 (completely disagree) to 7 (completely agree).

246 Demographic: we collected participants' age, gender, region of
247 birth, education, and socio-economic status.

248 *Procedure*

249 The study was implemented in Qualtrics (Provo, UT), to which
250 participants could grant access by clicking on the online link spread
251 on the social media. Once they got access to the study, participants
252 read the informed consent and clicked on a button to accept its
253 terms. Then, they had to fill in the demographic questions and the
254 76 items of the AIMS. The order of presentation of the items of the
255 AIMS was random.
256 The procedure took approximately 40 minutes. Participants were
257 not compensated for their involvement in the study.
258 The present research (Prot. n. 0002192) was approved by the
259 Sapienza University of Rome ethics committee and was conducted
260 in accordance with the 1964 Declaration of Helsinki.

261

262 **RESULTS**

263 *Items Reduction*

264 To reduce the high number of items we followed both a theory-
265 driven and a data-driven approach. In the former, the decision to
266 remove or retain a certain item was based on a thorough
267 examination of its content and theoretical significance for the scale.
268 In the latter, items that correlated less than $|.2|$ with the total score
269 (obtained by averaging all items of the scale) were considered for
270 removal. In fact, an item that correlates less than $|.3|$ or $|.2|$ with the
271 total score might be measuring something different compared to the
272 other items in the scale (Field, 2005). Here, aware of the potential
273 consequences of including items whose content might be very far
274 from the construct of interest, we opted for the more conservative
275 criterion of $|.2|$. Moreover, we excluded the items whose median
276 scores corresponded exactly to the extremes of the response scale
277 (i.e., 1 or 7). In fact, extreme response style (ERS) might affect the
278 validity of the construct measurement (Moors, 2004 in Batchelor &
279 Florida, 2016). Items with such extreme values were also those that
280 might have had the least discriminant power. Thus, we started by
281 eliminating these items, then we eliminated one item (E3 - "How
282 much warm/cold do you feel with respect to mafia organized
283 crime?") because, upon closer inspection, its labels were

284	ambiguous: for instance, "warm" might have been interpreted both
285	in terms of positive (e.g., passion) and negative (e.g., anger)
286	emotions. We eliminated two items (E10, C32) because we realized
287	that they did not precisely measure the attitudes towards mafias.
288	We eliminated three items (B6, C31, C33) because they correlated
289	indeed less than |.2| with the total score of the questionnaire.
290	However, we retained 5 items (B22, B23, C8, C23, C25) because,
291	even if poorly correlated with the total score, they were deemed as
292	theoretically important.
293	The final pool consisted of 28 items (see Table 1).
294	*Exploratory Factor Analysis*
295	The Kaiser-Meyer-Olkin test (Overall KMO = .76; all items KMOs
296	>.5) showed that our sample size was adequate to perform
297	exploratory factor analysis. Moreover, Bartlett's test of sphericity
298	($\chi^2(378) = 1876.05$, $p <.001$) indicated that the inter-items
299	correlations were large enough, and Determinant > 0.00001 (det =
300	.001) indicated no multicollinearity issues.
301	Given the ordinal nature of our variables, we performed an
302	exploratory factor analysis (EFA) using the Principal Axis (PA)
303	factor extraction method. Although parallel analysis suggested a 6-
304	factor solution, we followed a simpler solution based on Kaiser's
305	criterion of eigenvalues > 1 (Kaiser, 1960) and Cattel's criterion
306	based on the scree-plot (Cattell, 1966), which both suggested a 3-
307	factor solution explaining 26% of the total variance. We treated
308	missing values with a listwise deletion procedure. Then, we
309	conducted an EFA forced with a 3-factor solution. We used *oblimin*
310	rotation to increase the interpretability of the factor solution, and
311	because the underlying latent variables were likely to be correlated,
312	which was indeed the case ($r_s <.36$). We excluded five items (C7,
313	C18, C24, C27, C37) because either loaded poorly (r< .2) on a
314	factor, or saturated equally on two or more of the factors (the
315	difference between the item's highest and lowest loadings on the
316	factors is r< .2), or -instead of focusing on the mafias per se- their
317	content was more related to the attitudes towards the State (see
318	Table 1 for factor loadings).
319	The final pool consisted of 23 items clustered around three factors:
320	one factor gathered those items that referred to behavioral
321	intentions towards mafias (*Behaviors*); one gathered those items
322	that referred to beliefs and thoughts about mafias (*Cognitions*); and
323	one gathered those items that referred to a mix of emotions and
324	thoughts towards mafias (*Emotions-Cognitions*).

325

STUDY 2

Participants

We recruited 393 Italian participants (194 females; M_{age} = 27.74 years old, SD_{age} = 8.25) through Prolific (www.prolific.co). Among them, 198 (50.6%) were born in the five DRMR regions, while 193 (49.6%) in the rest of Italy. Four respondents (2%) had a middle school diploma, 133 (33.8%) a high school diploma, 222 (56.5%) a bachelor's or master's degree, 31 (7.8%) a doctoral degree or a master post-lauream, and 3 (0.8%) had other diplomas. On a scale ranging from 0 to 100 participants' mean self-reported socio-economic status was 44.67 (SD = 17.86). Seventy-two (18.3%) participants had an income <10,000 euros, 96 (24.4%) between 10,000 and 20,000, 99 (25.2%) between 20,000 and 30,000, 66 (16.8%) between 30,000 and 40,000, 24 (6.1%) between 40,000 and 50,000, and 36 (9.2%) > 50,000.

Measures

Attitude towards Italian Mafias Scale (AIMS): this scale, devised in light of the results from Study 1, consisted of 23 items to which participants were asked to express their disagreement or agreement on a response scale ranging from 1 (completely disagree) to 7 (completely agree).
Criminal Sentiment Scale (CSS, Gendreau et al., 1979, revised by Shileds & Simour, 1991, also present in Simourd 1997, and Simourd & Olver, 2002): this scale consisted of 41 items divided in 5 subscales each referring to an attitudinal object related to crime in general (i.e., Law, Court, Police, Tolerance towards violations and Identification with criminal others). We chose to use the CSS for testing the discriminant validity of the AIMS because there is no existing measure that directly examines our specific construct of interest, i.e., the attitudes towards Italian mafias. The CSS scale has been proven to be a reliable and valid measure for assessing attitudes towards crime, which is closely related to our construct but still distinct from it. Here, we used the revised version by Shields & Simourd (1991) where participants are asked to express their disagreement or agreement on a 3-point Likert scale ranging from 0 to 2. For consistency reasons, we used an adapted 7-point response scale ranging from 1 (completely disagree) to 7 (completely agree). To be sure that the Italian version that we presented was comparable to the original one, we asked a native English speaker fluent in Italian to back-translate the Italian version into English. Since the two versions were almost identical, we

367 could safely use the Italian version.
368 *Donation*: we offered participants the possibility to donate their
369 compensation for completing the study to "Libera", a non-profit
370 association active against mafias, corruption, and all forms of
371 illegal activities (https://www.libera.it/schede-1326-libera_inglese).
372 Participants could answer "yes" to donate or "no" to not donate and
373 keep the compensation for themselves.
374 *Demographic*: we collected participants' age, gender, region of
375 birth, education, income, and socio-economic status.

376 *Procedure*

377 Participants were re-directed from Prolific to the online platform
378 where we implemented the study (Qualtrics, Provo, UT). Once
379 there, participants read the informed consent and clicked on a
380 button to accept its terms. Then, they had to fill in the demographic
381 questions, the AIMS, and the CSS. The order of presentation of the
382 AIMS and CSS as well as the questions within the two
383 questionnaires was random.
384 Finally, participants had to respond to the offer of donating their
385 compensation of 1.50 euro to the non-profit association against
386 Mafias.
387 At the end of the procedure, that took approximately 15 minutes,
388 participants were debriefed and told that they would have been paid
389 regardless their decision to donate.
390 The present research (Prot. n. 0002192) was approved by the
391 Sapienza University of Rome ethics committee and was conducted
392 in accordance with the 1964 Declaration of Helsinki.

393

394 **RESULTS**

395 *Confirmatory Factor Analysis*

396 We conducted a confirmatory factor analysis (CFA) on the 23-item
397 of the AIMS by means of the R packages *lavaan* (Rosseel, 2012)
398 and *semTools* (Jorgensen, Pornprasertmanit, Schoemann, &
399 Rosseel, 2021). Due to the ordinal nature of the response scale, we
400 used the diagonally weighted least squares (DWLS) estimation
401 method. No missing values were present in this study.
402 Given the results of the EFA in Study 1, which supported the
403 theoretical basis of this research and represented by the tripartite
404 model of attitudes, we performed the CFA on three main models,
405 each assuming a structure with three components. However, to
406 explore the possibility that the latent structure of the AIMS might

407 still be univocal, we tested a fourth unidimensional model.
408 Thus, we built:
409 1) a bifactor model, in which all the items loaded onto a general
410 factor, and sub-sets of items loaded onto three grouping orthogonal
411 factors;
412 2) a second-order model, in which three correlated sub-sets of items
413 were explained by a superordinate factor;
414 3) a tridimensional model, in which sub-sets of items loaded onto
415 three specific factors, but no general or superordinate factor was
416 assumed;
417 4) a unidimensional model in which all the items loaded onto one
418 factor.
419 According to the standard criteria for the goodness of fit indexes
420 (Baumgartner & Homburg, 1996; Hu & Bentler, 1999), the
421 unidimensional model resulted in an insufficient fit. Conversely,
422 the tridimensional and the second-order model had much better fits.
423 Nonetheless, the best fit was achieved by the bifactor model (see
424 Table 2). Model comparisons confirmed that the bifactor model
425 ($\chi^2(227) = 401.10$) significantly outperformed the other models
426 (tridimensional: $\chi^2 (207) = 942.15$, $p <. 001$; second-order: $\chi^2 (207)$
427 $= 942.15$, $p < .001$; unidimensional: $\chi^2(230) = 2192.81$, $p <.001$),
428 indicating that a structure with a general factor *Mafia Attitude* and
429 three specific factors *Behaviors*, *Cognitions*, *Emotions-Cognitions*
430 was the most compatible with our data.
431 However, in terms of local fit, a closer inspection of the bifactor
432 model revealed that some items loaded poorly on the general factor
433 *Mafia Attitude*, which might signal a negligible contribution to the
434 scale, if not possible misspecification issues. Thus, we decided to
435 remove those items that loaded less than |.3| onto the general factor
436 (E9, C8, C23 and C25) which resulted in a 19-item scale. A new
437 inspection of the model showed that one further item (C10) resulted
438 in a loading below the cutoff of |.3|, and for this reason was
439 removed. The new 18-item bifactor model showed a better fit than
440 the original 23-item model, but a slightly worse fit compared to the
441 19-item model (see Table 3). Nonetheless, because this model
442 appeared simpler and in accordance with the criterium used for
443 item removal (i.e., loadings < |.3| into the general factor), we
444 decided to retain the 18-item model for the following analyses (see
445 Table 4 for items list and factor loadings).
446 We performed another model comparison between the
447 aforementioned models relative to the new 18-item scale: again, the
448 bifactor model ($\chi^2(117) = 228.16$) significantly outperformed the
449 other models (tridimensional: $\chi^2 (132) = 507.77$, p <.001; second-

450	order: χ^2 (132) = 507.77, $p < .001$; unidimensional: χ^2(135) =
451	1173.08, $p < .001$).

Internal Consistency

453	To measure the scale's internal consistency we computed the
454	McDonald's ω (Flora, 2020) for the general factor and for the three
455	specific factors of the bifactor model: as shown in Table 5 omegas
456	total were good to excellent for the general factor *Mafia Attitude*
457	and for *Behaviors* and *Emotion-Cognitions* subscales (Nunnally,
458	1978, see also Nájera Catalán, 2019), while still acceptable for
459	*Cognitions* subscale. However, omega hierarchical indices
460	demonstrate that a substantial proportion of scale internal
461	consistency can be attributed to the general factor.

Construct Validity

463	To test the AIMS' discriminant validity we confronted participants'
464	scores on the scale and their scores on the CSS. To do so, we
465	performed a CFA on three different models:
466	1) a discriminant model where we specified two macro-factors, one
467	for the AIMS and one for the CSS with their subscales;
468	2) a unidimensional model where we specified one macro-factor
469	comprising the items of AIMS and CSS all together;
470	3) a convergent model where we specified a macro-factor
471	comprising both AIMS and CSS and their subscales.
472	To avoid under identification problems due to the high number of
473	parameters to be estimated compared to the number of
474	observations, we used a robust maximum likelihood (MLR)
475	estimation method. Model comparison revealed that the
476	discriminant model outperformed the other two, giving evidence
477	for discriminant validity (see Table 6).
478	To furtherly support this claim we performed a correlational
479	analysis between participants' scores on the AIMS and their scores
480	on the CSS. To do so, we first created an index for the AIMS by
481	averaging its items, such that higher scores indicated pro-mafia
482	attitudes. We then created an index also for the CSS by following
483	the procedure described in Shields & Simourd (1991). To increase
484	its interpretability, we reversed the CSS scores such that higher
485	values indicated pro-crime attitudes.
486	We performed a Spearman's rank-order correlation for non-
487	parametric tests between the two questionnaires: results showed a
488	positive and significant correlation (rho = .45, $p < .001$), indicating
489	that a positive attitude towards mafias corresponded to a positive
490	attitude towards crime. The moderate value of this correlation,

491 combined to the results of the CFA, gives evidence for discriminant
492 validity of the AIMS. However, as a final proof, we calculated the
493 covariance score between the AIMS and the CSS obtained from the
494 Discriminant model, which yielded a r = .40, 95% CI [.26, .54],
495 well below the suggested value of .8, above which there might be
496 discriminant validity problems (Rönkkö & Cho, 2022).

497 *Criterion Validity - Predictive Validity*

498 We performed a logistic regression using the R package *car* (Fox &
499 Weisberg, 2019) with Donation as our dichotomic dependent
500 variable and AIMS score as our predictor.
501 The model ($\chi^2(1)$ =18.98, $p < .001$) showed that AIMS did predict
502 donation behavior (b = 0.58, SE = 0.14, z = 4.20, $p <. 001$).
503 Specifically, AIMS scores 1 sd below the mean corresponded to
504 62% probability of donating, while AIMS score 1 sd above the
505 mean corresponded to only 40%, suggesting that pro-mafia
506 attitudes corresponded to a lower probability of donating to an
507 association against mafias.
508 Crucially, to discriminate the predictive validity of the AIMS from
509 the CSS, we performed a logistic multiple regression with Donation
510 as our dichotomic dependent variable and AIMS and CSS scores as
511 our predictors. Results indicated that - when CSS was held
512 constant- the AIMS still predicted whether participants donated
513 their reward (b = -0.60, SE = 0.15, z = 3.92, $p <. 001$), but this did
514 not hold true for the CSS (b = -0.06, SE = 0.15, z = -0.41, p =.68).

515 *Measurement Invariance*

516 Since experiences with mafias vary across different territories, it is
517 reasonable to assume that individuals from regions where the
518 presence of mafias is more tangible may have a different social
519 representation of the phenomenon compared to those from areas
520 where mafias are less pervasive. Indeed, mafias are influenced by
521 cultural and social elements that are specific to the regions where
522 they originated (see Travaglino et al., 2014, 2016). In this vein,
523 certain situations described in the scale items may be perceived
524 differently in different regions, potentially impacting the structure
525 of the scale itself. Thus, to deal with this issue, we tested
526 measurement invariance between participants from the five DRMR
527 (i.e., Apulia, Basilicata, Calabria, Campania and Sicily) and those
528 from the rest of Italy. Due to the high number of parameters to be
529 estimated and since some response categories in some items had no
530 observations, we merged 6 and 7 response categories into the same
531 category to obtain a 6-point response scale (instead of the original

532 7-point response scale). Although treating ordinal data as
533 continuous can be an acceptable alternative when having more than
534 5 response categories (Distefano & Morgan, 2014), at this stage we
535 decided to respect its original nature and collapse response
536 categories, which seems a more valid approach when dealing with
537 sparse data or small frequency cells (Distefano et al., 2021). We
538 then performed a multi-group CFA using the diagonally weighted
539 least squares (DWLS) estimation method. Following Svetina et al.
540 (2019) procedure for categorical variables, we started by testing the
541 configural invariance by fitting a baseline unrestricted model,
542 which showed a very good fit (χ^2 = 293.45, df = 234.00,
543 comparative fit index [CFI]= 0.995, Tucker-Lewis index [TLI] =
544 0.994, standardized root mean square residual [SRMR] = 0.063,
545 root mean square error of approximation [RMSEA] = 0.036). Then,
546 we fitted a model where we forced the thresholds to be equal in the
547 two groups, and this did not significantly decrease the goodness of
548 fit compared to the baseline model (χ^2 baseline= 293.45, χ^2
549 thresholds= 312.13; p = .63). Finally, we fitted a model where both
550 thresholds and loadings were set to be equal between the two
551 groups and compare its fitness to the thresholds only model. Again,
552 results showed no significant decrease in goodness of fit (χ^2
553 thresholds= 312.13, χ^2 loadings= 386.71; p = .08), which confirmed
554 that the AIMS measured the latent construct in the same way
555 among participants from the five DRMR and those from the rest of
556 Italy.

557 *Comparing AIMS scores between Deep-Rooted Mafia Regions and*
558 *rest of Italy*

559 Once established the measurement invariance, we explored if
560 participants from the five DRMR and those from the rest of Italy
561 differ in their AIMS scores. Indeed, parallel to the purported
562 differences in item perception that could impact the structure of the
563 scale, participants' attitudes may depend on their familiarity with
564 contexts characterized by mafia's pervasive and tangible presence
565 (as in the DRMR) or contexts where this presence is comparatively
566 more subtle or even imperceptible.
567 We used JASP (Version 0.16.3; JASP Team, 2022) to perform a t-
568 test on participants' mean scores (AIMS means scores), obtained
569 by the widely used procedure of averaging the responses to the
570 items of the scale. Here we reported the analyses and the results on
571 the scores derived from the model built for testing measurement
572 invariance, where we reduced the response categories from the
573 initial 7 to 6. We performed the same analyses also on the scores
574 based on 7 response categories, yielding the same pattern of results

575   (see Supplementary materials).

576   Moreover, given the exploratory nature of these analyses, we
577   applied both a frequentist and a Bayesian approach to test the
578   robustness of the results and to provide a quantification of the
579   evidence in favor of the hypothesis that there would be a difference
580   between the two samples over the hypothesis that there would not
581   be any difference.

582   Finally, to strengthen our results, we performed the same analysis
583   also on participants' latent general factor scores (AIMS fscores)
584   obtained from the CFA, a method that weighs the contribution of
585   each item to the scale. Nonetheless, it has been observed that, if the
586   scale tends toward unidimensionality (such as our bifactor
587   solution), using averaged (or summed) scores might be even better.
588   Indeed, when the scale is unidimensional these scores are less
589   sensitive to specific characteristics of the sample recruited
590   (Widaman and Revelle, 2023). Analyses of the AIMS fscores are
591   reported in the Supplementary materials.

592

593   *Frequentist approach*
594   Since it is common practice to treat aggregated scores deriving
595   from an ordinal Likert scale with five or more response categories
596   as continuous and perform parametric analyses (e.g., Norman,
597   2010), we performed a parametric t-test on AIMS scores.
598   Results on AIMS scores revealed a significant difference $t(391) = -$
599   2.14, $p = .03$, Cohen's $d = -.22$, 95% CI [-.41, -.02]), with more
600   negative attitudes towards mafias expressed by the DRMR
601   participants ($M_{DRMR} = 2.43$) compared to those from the rest of
602   Italy ($M_{Rest} = 2.60$).

603   *Bayesian approach*
604   We performed two Bayesian independent sample t-tests on the
605   same variables with a Cauchy prior distribution set at the default
606   scale value of 0.707. Contrary to the results obtained with the
607   frequentist approach, the analysis on AIMS mean scores suggested
608   that we do not have enough evidence ($BF_{10} = 1.02$) to support a
609   difference between DRMR participants ($M_{DRMR} = 2.43$, 95% CI
610   [2.32, 2.54] and those from the rest of Italy ($M_{Rest} = 2.60$, 95% CI
611   [2.49, 2.70]. The error percentage was equal to 0.02%, which
612   indicated a good stability in the algorithm that was used in this
613   analysis. Moreover, across a wide range of widths the Bayes factor
614   appeared to be relatively stable, ranging from 0.55 to 2.08.

615   Finally, we tested if the two groups differ for other relevant
616   demographic characteristics: we found no differences in terms of
617   age ($t(388.86) = 1.21$, $p = .22$; $M_{DRMR} = 28.24$, $M_{Rest} = 27.23$),

618	socio-economic status (t(384.16)= -0.73, p = .46; M_{DRMR} = 44.02,
619	M_{Rest} = 45.33) or education ($\chi^2(4)$ = 5.70, p = .22). Conversely,
620	they differ for their income ($\chi^2(5)$ = 19.76, p = .001), with
621	participants from the rest of Italy being richer than those from the
622	five DRMR regions.

623

DISCUSSION

625	Italian mafias continue to be an open issue for their territories of
626	origin as well as for the rest of Italy and for many Countries
627	worldwide. Pro-mafias attitudes might explain the support that
628	allow these criminal associations to infiltrate and proliferate in
629	many societies. However, despite their importance,
630	psychometrically reliable instruments to measure attitudes towards
631	mafias are lacking. Thus, to fill this gap we developed the Attitudes
632	towards Italian Mafias Scale (AIMS). Following exploratory and
633	confirmatory factor analyses we were able to create an 18-item
634	questionnaire whose latent structure was best identified by a
635	bifactor model, with a general factor *Mafia Attitude*, and three more
636	specific orthogonal factors, namely, *Behaviors*, *Cognitions* and
637	*Emotions-Cognitions*.
638	Bifactor models, which are special cases of second-order models,
639	are not often used in psychological research, but can be very useful
640	as they allow to estimate a unidimensional construct while
641	acknowledging its multidimensionality (Reise et al., 2010 in
642	Boateng et al., 2018). Furthermore, these models allow for
643	partitioning the variance of each item between the variance
644	explained by the general factor and the variance explained by the
645	specific factors, which can be seen as different manifestations of
646	the construct of interest. In our case, the bifactor model showed an
647	excellent goodness of fit and clearly outperformed the
648	unidimensional and second-order/tridimensional models,
649	demonstrating that the explicit attitude towards Italian mafias is
650	neither univocal nor a construct consisting of separated components
651	or nuisances. In fact, behaviors, cognitions and emotions appear as
652	actual diverse manifestations of a unitary psychological construct
653	(Reise et al., 2018). Interestingly, within the three manifestations,
654	the factor *Emotions-Cognitions* showed a mixed-nature, with some
655	items more related to the emotions domain and some items related
656	to the cognitions one. This result would confirm that the three

657   manifestations of attitude do not always appear sharply separated
658   (Eagly & Chaiken, 1993), thus, it is even more important the
659   presence of a strong general underlying factor such as that
660   identified in our analysis.
661   In a similar vein, the scale shows a good to excellent internal
662   consistency for the general factor *Mafia Attitude* as well as for
663   *Behaviors* and *Emotions-Cognitions* factors, and acceptable for
664   *Cognitions* factor. However, hierarchical omega values indicates
665   that the general factor *Mafia Attitude* is the major responsible of the
666   scale internal consistency.
667   By comparing the AIMS with the Criminal Sentiment Scale (CSS,
668   Gendreau et al., 1979; Shields & Simourd, 1991), a questionnaire
669   extensively used to investigate attitudes towards crime in general,
670   we also demonstrated its discriminant validity. The two scales are
671   in fact related but moderately (rho = .45). Moreover, a CFA
672   showed that the model that best describes the relationship between
673   the two scales is a model where AIMS and CSS are treated as
674   separate and distinct macro-factors: mafia-like organizations are,
675   indeed, related to crime, but, because of their cultural, social and
676   political connotation (Allum et al., 2019), they can be ascribed to a
677   phenomenon representing a specific attitudinal object. This claim
678   was furtherly supported by the covariance value between the AIMS
679   and the CSS obtained from the Discriminant model, which with a r
680   = .40, 95% CI [.26, .54], fell well below the suggested value of .8
681   (Rönkkö & Cho, 2022), above which there might be discriminant
682   validity problems.
683   Crucially, the increased tendency to donate to the non-profit
684   association showed by those participants with stronger anti-mafias
685   attitudes (or weaker pro-mafia attitudes) demonstrates the
686   predictive validity of the AIMS. Although not always strong and
687   straightforward (Wicker, 1969), attitudes are often reliable
688   predictors of many actual behaviors (Ajzen & Fishbein, 1977),
689   especially when attitudes and behaviors are measured at
690   corresponding levels of specificity (Kraus, 1995). In fact, from a
691   semantic point of view, the donation to an association against
692   mafias is strongly related to the item "I would invest some money
693   to organize initiatives against mafia organized crime" listed in the
694   specific behavioral factor of the AIMS. As further confirmation,
695   behavioral intentions are the key component in the relationship
696   between attitudes and behaviors (Ajzen, 2005).

697 Finally, the AIMS was invariant to participants' region of birth,
698 indicating that the scale was interpreted in the same manner by
699 people from the five deep-rooted mafia regions (DRMR, i.e.,
700 Apulia, Basilicata, Calabria, Campania and Sicily) and people from
701 the other parts of Italy. This allowed us to explore the difference in
702 the AIMS scores between the two groups of participants. Despite
703 the low scores indicated overall negative attitudes towards mafias,
704 across robust frequentist and Bayesian analyses we found that those
705 expressed by DRMR participants were more negative compared to
706 those of the participants from the rest of Italy. A two-facet
707 explanation can be offered to explain this, somewhat unexpected,
708 pattern of results. On the one hand, it can be posited that after
709 decades of silence code and even overt ideological support,
710 participants from the DRMR are finally reacting leading to a
711 'redemption' process that can re-balance the difference with the
712 other Italian regions. Even if somewhat speculative, this
713 interpretation is supported by the spread of associations and
714 initiatives aimed at contrasting mafia-like organizations (Cinotti,
715 2015). On the other hand, the less positive attitudes expressed by
716 the participants living in the five DRMR, may reflect the fact that
717 in these territories mafias often adopt a non-violent strategy that
718 aims at gaining the largest capitals possible (Giorgi et al., 2018). In
719 this vein, mafias can be even a means to get rich and, thus,
720 something to make deals with rather than to fight against (Giorgi et
721 al., 2018).
722 It is worth also noting that, although the people from the five
723 DRMR regions were significantly poorer than those of the rest of
724 Italy, both groups were quite well educated. We, thus, underline the
725 importance of having the adequate instruments to understand
726 (anti)social phenomena in order to reject them despite one's own
727 socio-economic conditions.

728 *Limitations and Future Directions*

729 One limitation of this research regards the use of convenience
730 samples, which, especially for sensitive topics such as the one here
731 investigated, might suffer from the well-documented selection bias
732 (Heckman, 1990), and might fail to represent the general
733 population (Paolacci et al., 2010). This could be especially
734 accurate for Study 1, wherein we enlisted a more imbalanced
735 population, particularly regarding their birth region and their
736 education. However, while in Study 2 we implemented a

737 systematic plan that necessitated a specific sampling approach,
738 Study 1 was designed as exploratory, without any specific
739 predictions or hypotheses that would have required specific
740 sampling constraints. In this vein, we did not have any specific
741 expectations or hypotheses regarding in particular the impact of
742 participants' education level on the perception of the items and,
743 consequently, on the structure of the scale. We reasoned that as
744 long as the items are comprehensible their perception should
745 remain unaffected. Therefore, during the item preparation stage,
746 we took special care to ensure that the content and format of the
747 items were understandable by consulting various experts in the
748 field..
749 Moreover, 59.6% and 56.5% of our participants in Study 1 and
750 Study 2, respectively, reported having at least a bachelor's degree,
751 that closely aligns with what emerges from a report produced by
752 the National Institute of Statistics (ISTAT) in 2022, showing that
753 63% of Italian people aged between 25 and 64 years hold an
754 academic degree, with a 0.3% increase compared to 2021. It is
755 however essential to acknowledge that this data overlooks an
756 important segment of the Italian population comprising individuals
757 over 65 years old. While this is true, it is also worth considering
758 that the age range of 24-65 years old includes a significant part of
759 the productive population, with whom the Mafia is likely to
760 interact and conduct business. Consequently, for future
761 interventions and educational programs, it may be more beneficial
762 to survey and target this specific segment of the population. With
763 this in mind, the imbalance of our sample in terms of educational
764 level might not be an alarming issue.
765 Another important advantage of these participants is that they are
766 usually are more heterogeneous than standard Internet samples
767 (Berinsky et al., 2012; Buhrmester et al., 2011). Moreover, since
768 they often time have higher motivation due to either their
769 relationship with the experimenters, their interest in the topic or the
770 presence of external incentives (Jun et al., 2017), these participants
771 overall provide good quality and reliable data (Stanton et al.,
772 2022). Future research might test the AIMS in other contexts and
773 populations, for instance convicted mafia criminals (Craparo et al.,
774 2018; Salvato et al., 2020). As a further step, we hope the AIMS
775 might evolve to measure attitudes towards mafia-like organizations
776 originating from other parts of the World, either present in Italy

itself, such as the Nigerian and Albanian mafias, or present in other countries, such as the powerful Russian or Japanese mafias. In this regard, although these organizations share with the Italian mafias their modus operandi, being they a product of cultural, social, and political elements, they have contextual idiosyncrasies that require ad hoc changes to the AIMS.

Another potential limitation lies in the intrinsic nature of self-report measures: it has been known for decades now that respondents might not be particularly aware of their higher order mental processes, such as the decision-making driving their choices (Nisbett et al., 1977). This lack of introspection might lead to biased responses that do not reflect people's real thoughts or judgements. However, when stimuli are influential and salient, people might be more aware of their internal mental states and provide more accurate responses (Nisbett et al., 1977). In this vein, mafias are an extremely relevant issue for Italian (and not only) society, which should elicit the necessary involvement to provide accurate responses.

The saliency but at the same time sensitivity of the topic itself, though, might be responsible of the second important limitation, that is, when providing self-reported answers people tend to respond in a socially desirable manner to convey a positive self-image (Edwards, 1953; Krumpal, 2013). In fact, social desirability refers to either a personality trait identified by a constant need of approval, but also to the characteristics of the stimulus (i.e., item), whereby, if the response to that stimulus violates the social norm, people tend to underreport the socially undesirable behavior, but if the response conforms to the norm, then people tend to overreport the socially desirable behavior (Fowler & Fowler, 1995 in Krumpal, 2013). The AIMS require answers both violating and conforming to social norms, which might elicit social desirability. However, the methods used for collecting and analyzing data allowed us to assure participants anonymity, which, by reducing perceived risk and losses to respond in a socially undesirable manner, is one of the main strategy employed to incentivize truthful responses (Rasinski et al., 1999 in Krumpal, 2013).

It is worth noting that participants were able to donate only a small amount of money to the anti-mafia association Libera. While this limited donation might not have been particularly significant for them, we believe that this limitation does not undermine the

817   validity of our results or our conclusions. In fact, even though one
818   could easily dismiss such a small amount of money and agree to
819   donate it, a person with a positive attitude towards Italian mafias
820   would be unlikely to contribute their earnings to an association that
821   likely holds opposing ideological values. If anything, with a larger
822   reward, we would expect to see an even stronger polarization, with
823   those who express more negative attitudes towards Italian mafias
824   more likely to donate to anti-mafia associations compared to those
825   with more positive attitudes.
826   Lastly, while the fit indexes throughout the analyses confirmed the
827   appropriateness of our choices, it is important to note that the 3-
828   factor solution derived from the exploratory factor analysis (EFA)
829   in Study 1 explained only 26% of the total variance. This
830   percentage falls below the commonly accepted threshold typically
831   applied to behavioral data, which is between 50% and 60%
832   (Peterson, 2000). However, this threshold is a matter of debate as
833   seldom it has theoretically and empirically justified (Peterson,
834   2000). In fact, this rule of thumb often fails to take into account the
835   specific characteristics of the research context and, more
836   importantly, of the research object. In view of this, we believe that
837   the low value observed may be attributed to the inherent
838   complexity of the psychological construct itself. Indeed, attitudes
839   towards crime-related phenomena, such as Italian mafias,
840   encompass numerous and diverse aspects, some of which may be
841   substantially distinct from each other.

842

Conclusions

844   Italian mafias, with their criminal activities, represent a relevant
845   phenomenon causing severe social and economic consequences.
846   Psycho-social research has demonstrated the usefulness of attitudes
847   for explaining and changing socially undesirable behaviors.
848   Nonetheless, research lacked a psychometrically valid and reliable
849   tool for investigating attitudes towards Italian mafias. To fill this
850   gap we developed the AIMS, an 18-item questionnaire that
851   measures the behavioral intentions, thoughts and emotions
852   associated to the Italian mafias. The scale might help researchers
853   and professionals to survey the sentiment of the population and
854   promote initiatives and interventions aimed at deconstructing
855   supportive tendencies towards mafia-like organizations.

856

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866

References

868 Ajzen, I. (2005). Attides, Personallity and Behavior. In
869 International Journal of Strategic Innovative Marketing (Vol. 3).

870 Ajzen, I., & Fishbein, M. (1977). Attitude-behavior relations: A
871 theoretical analysis and review of empirical research. Psychological
872 Bulletin, 84(5), 888–918. https://doi.org/10.1037/0033-
873 2909.84.5.888

874 Allum, F., Merlino, R., & Colletti, A. (2019). South European
875 Society and Politics Facilitating the Italian Mafia: The Grey Zone
876 of Complicity and Collusion Facilitating the Italian Mafia: The
877 Grey Zone of Complicity and Collusion. South European Society
878 and Politics, 24(1), 79–101.
879 https://doi.org/10.1080/13608746.2019.1575563

880 Articolo 416 bis Codice Penale (R.D. 19 ottobre 1930, n. 1398)
881 https://www.gazzettaufficiale.it/atto/serie_generale/caricaArticolo?
882 art.versione=9&art.idGruppo=34&art.flagTipoArticolo=1&art.codi
883 ceRedazionale=030U1398&art.idArticolo=416&art.idSottoArticolo
884 =2&art.idSottoArticolo1=10&art.dataPubblicazioneGazzetta=1930
885 -10-26&art.progressivo=0

886 Aziani, A. (2022). *Violenza e mercati illegali: Teorie e analisi*
887 *della realtà italiana [Violence and illegal markets: Theories and*
888 *analyses of the Italian reality]*. Vita e Pensiero.

889 Batchelor, J. H., & Florida, W. (2016). Extreme Response Style: A
890 Meta-Analysis. Journal of Organizational Psychology, 16(2), 51–
891 62.

892 Baumgartner, H., & Homburg, C. (1996). Applications of structural
893 equation modeling in marketing and consumer research: A review.
894 International Journal of Research in Marketing, 13(2), 139–161.
895 https://doi.org/10.1016/0167-8116(95)00038-0

896 Berinsky, A. J., Huber, G. A., & Lenz, G. S. (2012). Evaluating
897 online labor markets for experimental research: Amazon.com's
898 mechanical turk. Political Analysis, 20(3), 351–368.
899 https://doi.org/10.1093/pan/mpr057

900 Boateng, G. O., Neilands, T. B., Frongillo, E. A., Melgar-
901 Quiñonez, H. R., & Young, S. L. (2018). Best Practices for
902 Developing and Validating Scales for Health, Social, and
903 Behavioral Research: A Primer. Frontiers in Public Health, 6(June),
904 1–18. https://doi.org/10.3389/fpubh.2018.00149

905 Buhrmester, M., Kwang, T., & Gosling, S. D. (2011). Amazon's
906 Mechanical Turk. Perspectives on Psychological Science, 6(1), 3–
907 5. https://doi.org/10.1177/1745691610393980

908 Calder, B. J., & Lutz, R. J. (1972). An investigation of some
909 alternatives to the linear attitude model. ACR Special Volumes.

910 Calderoni, F., Berlusconi, G., Garofalo, L., Giommoni, L., &
911 Sarno, F. (2016). The Italian mafias in the world: A systematic
912 assessment of the mobility of criminal groups. *European Journal of
913 Criminology*, *13*(4), 413-433.

914 Cattell, R. B. (1966). The Scree Test For The Number Of Factors.
915 Multivariate Behavioral Research, 1(2), 245–276.
916 https://doi.org/10.1207/s15327906mbr0102_10

917 Cinotti, G. (2015). Gli osservatori Antimafia in Italia. In Rivista di
918 Studi e Ricerche sulla Criminalità Organizzata.

919 Craparo, G., David, V., Costanzo, G., & Gori, A. (2018).
920 International Journal of Law and Psychiatry Cosa Nostra and the
921 Camorra: Assessment of personality, alexithymic traits, and
922 attachment styles. International Journal of Law and Psychiatry, 58,
923 17–26. https://doi.org/10.1016/j.ijlp.2018.02.010

924 Della Ratta-Rinaldi, F., Ioppolo, L., & Ricotta, G. (2012). Con i
925 loro occhi. L'immaginario mafioso tra i giovani (Gruppo Abe).

926 Distefano, C., & Morgan, G. B. (2014). A Comparison of Diagonal
927 Weighted Least Squares Robust Estimation Techniques for Ordinal
928 Data. Structural Equation Modeling: A Multidisciplinary Journal,
929 21(3), 425–438. https://doi.org/10.1080/10705511.2014.915373

930   Distefano, C., Shi, D., & Morgan, G. B. (2021). Collapsing
931   Categories is Often More Advantageous than Modeling Sparse
932   Data: Investigations in the CFA Framework. Structural Equation
933   Modeling: A Multidisciplinary Journal, 28(2), 237–249.
934   https://doi.org/10.1080/10705511.2020.1803073

935   Eagly, A. H., & Chaiken, S. (1993). The psychology of attitudes. In
936   The psychology of attitudes. Harcourt Brace Jovanovich College
937   Publishers.

938   Eagly, A. H., & Chaiken, S. (1998). Attitude structure and function.
939   In The handbook of social psychology, Vols. 1-2, 4th ed. (pp. 269–
940   322). McGraw-Hill.

941   Eagly, A. H., & Chaiken, S. (2007). The advantages of an inclusive
942   definition of attitude. Social Cognition, 25(5), 582–602.
943   https://doi.org/10.1521/soco.2007.25.5.582

944   Edwards, A. L. (1953). The relationship between the judged
945   desirability of a trait and the probability that the trait will be
946   endorsed. Journal of Applied Psychology, 37(2), 90–93.
947   https://doi.org/10.1037/h0058073

948   Fishbein, M. (1963). An investigation of the relationships between
949   beliefs about an object and the attitude toward that object. Human
950   Relations, 16, 233–240.

951   Field, A., (2005). *Discovering Statistics Using SPSS*. 2nd ed.
952   London: Sage

953   Flora, D. B. (2020). Your Coefficient Alpha Is Probably Wrong,
954   but Which Coefficient Omega Is Right? A Tutorial on Using R to
955   Obtain Better Reliability Estimates. Advances in Methods and
956   Practices in Psychological Science, 3(4), 484–501.
957   https://doi.org/10.1177/2515245920951747

958   Fox J, Weisberg S (2019). *An R Companion to Applied Regression*,
959   Third edition. Sage, Thousand Oaks
960   CA. https://socialsciences.mcmaster.ca/jfox/Books/Companion/.

961   Fowler Jr, F. J., & Fowler, F. J. (1995). Improving survey
962   questions: Design and evaluation. SAGE Publications Ltd.

963   Gendreau, P., Grant, B, A., Leipciger, M., & Collinst, S. (1979).
964   Norms and recidivism rates for the. Canadian Journal of
965   Behavioural Science, 11(1).

966 Giorgi, A., Gozzoli, C., Soregaroli, L., & Bonenti, P. (2018). The
967 mafia psychology and the coexistence systems. International
968 Journal of Psychoanalysis and Education, X(2), 21–30.

969 Heckman, J. J. (1990). Selection Bias and Self-selection. In
970 Econometrics (pp. 201–224). Palgrave Macmillan UK.
971 https://doi.org/10.1007/978-1-349-20570-7_29

972 Hu, L. T., & Bentler, P. M. (1999). Cutoff criteria for fit indexes in
973 covariance structure analysis: Conventional criteria versus new
974 alternatives. Structural Equation Modeling, 6(1), 1–55.
975 https://doi.org/10.1080/10705519909540118

976 Hunt, S. (1991). Modern Marketing Theory. Cincinnati: South-
977 Western Publishing.

978 Iacolino, C., Pellerone, M., & Ferraro, A. M. (2017). Mafia
979 Perception in Relation to Sicilian Teenagers' Moral Disengagement
980 and Value Orientation the Role of Educational and Family
981 Contexts. World Futures, 73(6), 396–411.
982 https://doi.org/10.1080/02604027.2017.1357929

983 JASP Team (2022). JASP (Version 0.16.3) [Computer software].

984 Jorgensen, T. D., Pornprasertmanit, S., Schoemann, A. M., &
985 Rosseel, Y. (2021). semTools: Useful tools for structural equation
986 modeling. R package version 0.5-5.

987 Jun, E., Hsieh, G., & Reinecke, K. (2017). Types of Motivation
988 Affect Study Selection, Attention, and Dropouts in Online
989 Experiments. Proceedings of the ACM on Human-Computer
990 Interaction, 1(CSCW), 1–15. https://doi.org/10.1145/3134691

991 Kaiser, H. F. (1960). The Application of Electronic Computers to
992 Factor Analysis. Educational and Psychological Measurement,
993 20(1), 141–151. https://doi.org/10.1177/001316446002000116

994 Kraus, S. J. (1995). Attitudes and the Prediction of Behavior: A
995 Meta-Analysis of the Empirical Literature. Personality and Social
996 Psychology Bulletin, 21(1), 58–75.
997 https://doi.org/10.1177/0146167295211007

998 Krumpal, I. (2013). Determinants of social desirability bias in
999 sensitive surveys: a literature review. Quality & Quantity, 47(4),
1000 2025–2047. https://doi.org/10.1007/s11135-011-9640-9

1001 Mills, J. F., Kroner, D. G., & Forth, A. E. (2002). Measures of
1002 Criminal Attitudes and Associates (MCAA): Development, factor

1003   structure, reliability, and validity. Assessment, 9(3), 240–253.
1004   https://doi.org/10.1177/1073191102009003003

1005   Moors, G. (2004). Facts and Artefacts in the Comparison of
1006   Attitudes Among Ethnic Minorities. A Multigroup Latent Class
1007   Structure Model with Adjustment for Response Style Behavior.
1008   European Sociological Review, 20(4), 303–320.
1009   https://doi.org/10.1093/esr/jch026

1010   Nájera Catalán, H. E. (2019). Reliability, Population Classification
1011   and Weighting in Multidimensional Poverty Measurement: A
1012   Monte Carlo Study. Social Indicators Research, 142(3), 887–910.
1013   https://doi.org/10.1007/s11205-018-1950-z

1014   Nisbett, R. E., Wilson, T. D., Kruger, M., Ross, L., Indeed, A.,
1015   Bellows, N., Cartwright, D., Goldman, A., Gurwitz, S., Lemley, R.,
1016   London, H., & Markus, H. (1977). Telling More Than We Can
1017   Know: Verbal Reports on Mental Processes. Psychological Review,
1018   84(3), 231–259.

1019   Norman, G. (2010). Likert scales, levels of measurement and the
1020   "laws" of statistics. Advances in Health Sciences Education, 15(5),
1021   625–632. https://doi.org/10.1007/s10459-010-9222-y

1022   Nunnally, J. C. (1978). Psychometric theory. New York: McGraw-
1023   Hill, 2d ed.

1024   Ortet-Fabregat, G., & Pérez, J. (1992). An assessment of the
1025   attitudes towards crime among professionals in the criminal justice
1026   system. British Journal of Criminology, 32(2), 193–207.
1027   https://doi.org/10.1093/oxfordjournals.bjc.a048191

1028   Paolacci, G., Chandler, J., & Ipeirotis, P. G. (2010). Running
1029   experiments on Amazon mechanical turk. Judgment and Decision
1030   Making, 5(5), 411–419.

1031   Peterson, R. A. (2000). A meta-analysis of variance accounted for
1032   and factor loadings in exploratory factor analysis. Marketing
1033   letters, 11, 261-275.

1034   Pinotti, P. (2015). The Economic Costs of Organised Crime:
1035   Evidence from Southern Italy. The Economic Journal, 125(586),
1036   F203–F232. https://doi.org/10.1111/ecoj.12235

1037   Rasinski, K. A., Willis, G. B., Baldwin, A. K., Yeh, W., & Lee, L.
1038   (1999). Methods of data collection, perceptions of risks and losses,
1039   and motivation to give truthful answers to sensitive survey
1040   questions. Applied Cognitive Psychology, 13(5), 465–484.

1041 https://doi.org/10.1002/(SICI)1099-0720(199910)13:5<465::AID-
1042 ACP609>3.0.CO;2-Y

1043 Reise, S. P., Bonifay, W., & Haviland, M. G. (2018). Bifactor
1044 Modelling and the Evaluation of Scale Scores. In The Wiley
1045 Handbook of Psychometric Testing: A Multidisciplinary Reference
1046 on Survey, Scale and Test Development (pp. 667–707).

1047 Reise, S. P., Moore, T. M., & Haviland, M. G. (2010). Bifactor
1048 Models and Rotations: Exploring the Extent to Which
1049 Multidimensional Data Yield Univocal Scale Scores. Journal of
1050 Personality Assessment, 92(6), 544–559.
1051 https://doi.org/10.1080/00223891.2010.496477

1052 Rönkkö, M., & Cho, E. (2022). An updated guideline for assessing
1053 discriminant validity. *Organizational Research Methods*, *25*(1), 6-
1054 14.

1055 Rosenberg, M. J., Hovland, C. I., McGuire, W. J., Abelson, R. P.,
1056 & Brehm, J. W. (1960). Attitude organization and change: An
1057 analysis of consistency among attitude components. Yale Univer.
1058 Press.

1059 Rosseel, Y. (2012). lavaan: An R Package for Structural Equation
1060 Modeling. Journal of Statistical Software, 48(2).
1061 https://doi.org/10.18637/jss.v048.i02

1062 Salvato, G., Fiorina, M. L., De Maio, G., Francescon, E., Ovadia,
1063 D., Bernardinelli, L., Santosuosso, A., Paulesu, E., & Bottini, G.
1064 (2020). Pathological risk-propensity typifies Mafia members'
1065 cognitive profile. Scientific Reports, 10(1), 8559.
1066 https://doi.org/10.1038/s41598-020-65486-z

1067 Sarno, F. (2014). Italian mafias in Europe: between perception and
1068 reality. A comparison of press articles in Spain, Germany and the
1069 Netherlands. Trends in Organized Crime, 17(4), 313–341.
1070 https://doi.org/10.1007/s12117-014-9224-x

1071 Savona E, U. &, & Riccardi, M. (2015). From illegal markets to
1072 legitimate businesses: the portfolio of organised crime in Europe.
1073 Final Report of Project OCP – Organised Crime Portfolio.

1074 Schinka JA, Velicer, W., & Weiner IR. (2012). Handbook of
1075 Psychology, Vol. 2, Research Methods in Psychology. Hoboken,
1076 NJ: JohnWiley & Sons, Inc.

1077 Sciarrone, R. (2009). Mafie Vecchie, Mafie Nuove: Radicamento
1078 ed espansione. Donzelli, Roma.

1079   Sciarrone, R. (2011). Alleanze nell'ombra: Mafie ed economie
1080   locali in Sicilia e nel Mezzogiorno. Donzelli, Roma.

1081   Sergi Pantaleone, (2003), *Gli anni dei Basilischi. Mafia, istituzioni*
1082   *e società in Basilicata*, Milano, Franco Angeli editore.

1083   Shields, I. W., & Simourd, D. J. (1991). Predicting predatory
1084   behavior in a population of incarcerated young offenders. *Criminal*
1085   *Justice and Behavior*, *18*(2), 180-194.

1086   Simourd, D, J. (1997). The Criminal Sentiments Scale-Modified
1087   and Pride in Delinquency Scale: Psychometric properties and
1088   construct validity of two measures of criminal attitudes. *Criminal*
1089   *Justice and Behavior*, 24(1), 52–70.

1090   Simourd, D. J., & Olver, M. E. (2002). The future of criminal
1091   attitudes research and practice. *Criminal Justice and*
1092   *Behavior*, *29*(4), 427-446.

1093   Sprang, G. (1997). Victim Impact Panels. Journal of Social Service
1094   Research, 22(3), 73–84. https://doi.org/10.1300/J079v22n03_04

1095   Stanton, K., Carpenter, R. W., Nance, M., Sturgeon, T., &
1096   Villalongo Andino, M. (2022). A multisample demonstration of
1097   using the prolific platform for repeated assessment and
1098   psychometric substance use research. Experimental and Clinical
1099   Psychopharmacology. https://doi.org/10.1037/pha0000545

1100   Svetina, D., Rutkowski, L., & Rutkowski, D. (2019). Multiple-
1101   Group Invariance with Categorical Outcomes Using Updated
1102   Guidelines: An Illustration Using M plus and the lavaan/semTools
1103   Packages. Structural Equation Modeling: A Multidisciplinary
1104   Journal, 27(1), 111–130.
1105   https://doi.org/10.1080/10705511.2019.1602776

1106   Travaglino, G. A., & Abrams, D. (2019). How criminal
1107   organisations exert secret power over communities: An
1108   intracultural appropriation theory of cultural values and norms.
1109   European Review of Social Psychology, 30(1), 74–122.
1110   https://doi.org/10.1080/10463283.2019.1621128

1111   Travaglino, G. A., Abrams, D., & de Moura, G. R. (2016). Men of
1112   Honor Don't Talk: The Relationship Between Masculine Honor
1113   and Social Activism Against Criminal Organizations in Italy.
1114   Political Psychology, 37(2), 183–199.
1115   https://doi.org/10.1111/pops.12226

1116   Travaglino, G. A., Abrams, D., Randsley de Moura, G., & Russo,
1117   G. (2014). Organized crime and group-based ideology: The
1118   association between masculine honor and collective opposition
1119   against criminal organizations. Group Processes and Intergroup
1120   Relations, 17(6), 799–812.
1121   https://doi.org/10.1177/1368430214533394

1122   Walters, G. D., White, T. W., & Denney, D. (1991). The lifestyle
1123   criminality screening form: Preliminary data. Criminal Justice and
1124   Behavior, 18(4), 406–418.

1125   Walters, G. D. (2007). The latent structure of the criminal lifestyle:
1126   A taxometric analysis of the lifestyle criminality screening form
1127   and psychological inventory of criminal thinking styles. Criminal
1128   Justice and Behavior, 34(12), 1623–1637.
1129   https://doi.org/10.1177/0093854807307028

1130   Wicker, A. W. (1969). Attitudes versus Actions: The Relationship
1131   of Verbal and Overt Behavioral Responses to Attitude Objects.
1132   Journal of Social Issues, 25(4), 41–78.
1133   https://doi.org/10.1111/j.1540-4560.1969.tb00619.x

1134   Widaman, K. F., & Revelle, W. (2023). Thinking thrice about sum
1135   scores, and then some more about measurement and
1136   analysis. *Behavior Research Methods*, *55*(2), 788-806.

Study 1 items' factor loadings after Exploratory Factor Analysis

For each item only factor loadings > .30 are reported, except for the five items that were excluded from Study 2, for which factor loadings >.10 are reported to show their ambiguity.

Item	Factor 1 Behaviors	Factor 2 Cognitions	Factor 3 Emotions-Cognitions	Commonality
B3-I would report to the competent authorities illegal activities committed by a member of mafia organized crime, if I knew about them	0.78			0.64
B4-I would not rebel against a member of mafia organized crime making an extortion to me	0.33			0.12
B7-If I saw a person threatened by a member of mafia organized crime, I would report it to the competent authorities	0.69			0.44
B12-I would participate in events against mafia organized crime	0.43			0.34
B19-I would invest my money to organize initiatives against mafia organized crime	0.39			0.19
B20-I would not report a relative of mine if I knew that he/she collaborated with mafia organized crime	0.39			0.26
B21-I would report the illegal activities of mafia organized crime even if that would mean going against my neighbours and friends	0.78			0.59
E5-How much sadness mafia organized crime evoke in you? *R*			0.45	0.18
E7-How much anger mafia organized crime evoke in you? *R*			0.61	0.43
E9-How much fear mafia organized crime evoke in you? *R*			0.40	0.15
E11-How much indifference mafia organized crime evoke in you?			0.36	0.24
C1-Members of mafia organized crime are less honest than other people *R*			0.51	0.23
C6-Some values transmitted by mafia organized crime clans are agreeable			0.34	0.24
C10-What it is called mafia organized crime is actually common crime			0.35	0.20
C15-Mafia organized crime impoverishes the territories where it is present *R*			0.35	0.14
C30-Members of mafia organized crime think only about their own interest *R*			0.31	0.12
C8-Being affiliated to mafia organized crime open pave your way to richness		0.54		0.28

C13-Members of organized crime are good at their activities		0.49		0.27
C23-Members of mafia organized crime do just what is right for their clan		0.38		0.15
C25-Affiliating to mafia organized crime is a quick way to gain a lot of money		0.52		0.27
C29-A member of mafia organized crime is smarter than other people		0.58		0.32
C34-Members of mafia organized crime know how to be respected		0.56		0.36
C35-Mafia organized crime offers you job opportunities that the State is not able to give		0.40		0.27
C7-There are other problems in Italy that should have priority over mafia organized crime*	0.27	0.21	0.25	0.27
C18-It is not fair taking parental responsibility away from mafia organized crime members*		0.28	0.13	0.10
C24-If the State would seek a dialogue with mafia organized crime, there would not be all this violence*		0.26	0.14	0.14
C27-The important thing is that mafia organzized crime would not cause troubles to me*	0.15	0.17	0.11	0.10
C37-The State should deal with its corrupted politicians instead of thinking about mafia organized crime *		0.28	0.24	0.17

*excluded items for Study 2; *R* = reversed score

2 *Table 1*. **Study 1 items' factor loadings after Exploratory Factor Analysis.** For each item only
3 factor loadings > .30 are reported, except for the five items that were excluded from Study 2, for
4 which factor loadings >.10 are reported to show their ambiguity.

Study 2 Model comparison after Confirmatory Factor Analysis

For each model indexes of fitness are reported: Chi-Squared, Degrees of Freedom, Comparative Fit Index, Tucker-Lewis Index, Standardized Root Mean Square Residual, and Root Mean Square Error of Approximation.

Model	χ2	df	CFI	TLI	SRMR	RMSEA
Bifactor	401.10	207.00	0.987	0.984	0.057	0.049
Second-order	507.767	132.000	0.971	0.966	0.073	0.085
Tridimensional	942.14	227.00	0.951	0.946	0.083	0.090
Unidimensional	2192.81	230.00	0.866	0.853	0.121	0.148

1 *Table 2.* **Study 2 Model comparison after Confirmatory Factor Analysis.** For each model
2 indexes of fitness are reported: Chi-Squared, Degrees of Freedom, Comparative Fit Index, Tucker-
3 Lewis Index, Standardized Root Mean Square Residual, and Root Mean Square Error of
4 Approximation.

Study 2 Model comparison after Confirmatory Factor Analysis between bifactor models

Comparative Fitness Index, Tucker-Lewis Index, Standardized Root Mean Square Residual, and Root Mean Square Error of Approximation for the 18-item, 19-item and 23-item bifactor models are reported.

Model	CFI	TLI	SRMR	RMSEA
23-item	0.987	0.984	0.057	0.049
19-item	0.991	0.989	0.053	0.047
18-item	0.991	0.989	0.053	0.049

1   *Table 3*. **Study 2 Model comparison after Confirmatory Factor Analysis between bifactor**
2   **models.** Comparative Fitness Index, Tucker-Lewis Index, Standardized Root Mean Square
3   Residual, and Root Mean Square Error of Approximation for the 18-item, 19-item and 23-item
4   bifactor models are reported.

Study 2 18-items bifactor model's factor loadings and commonality after Confirmatory Factor Analysis

For each item factor loadings relative to the general factor and specific factors, and commonality are reported.

Item	General Factor Mafia Attitude	Factor 1 Behaviors	Factor 2 Cognitions	Factor 3 Emotions-Cognitions	Commonality
B3-I would report to the competent authorities illegal activities committed by a member of mafia organized crime, if I knew about them	0.54	0.69			0.78
B4-I would not rebel against a member of mafia organized crime making an extortion to me	0.42	0.34			0.29
B7-If I saw a person threatened by a member of mafia organized crime, I would report it to the competent authorities	0.55	0.68			0.76
B12-I would participate in events against mafia organized crime	0.71	0.08			0.51
B19-Iwould invest my money to organize initiatives against mafia organized crime	0.63	0.10			0.41
B20-I would not report a relative of mine if I knew that he/she collaborated with mafia organized crime	0.53	0.46			0.49
B21-I would report the illegal activities of mafia organized crime even if that would mean going against my neighbours and friends	0.53	0.65			0.70
E5-How much sadness mafia organized crime evoke in you? *R*	0.53			0.53	0.56
E7-How much anger mafia organized crime evoke in you? *R*	0.59			0.49	0.59
E11-How much indifference mafia organized crime evoke in you?	0.53			0.14	0.30
C1-Members of mafia organized crime are less honest than other people *R*	0.48			0.36	0.37
C6-Some values transmitted by mafia organized crime clans are acceptable (agreeable?)	0.63			0.18	0.43
C15-Mafia organized crime impoverishes the territories where it is present *R*	0.55			0.53	0.59
C30-Members of mafia organized crime think only about their own interest *R*	0.60			0.52	0.63
C13-Members of organized crime are good at their activities (business?)	0.37		0.56		0.45
C29-A member of mafia organized crime is smarter than other people	0.42		0.36		0.31
C34-Members of mafia organized crime know how to be respected	0.39		0.6		0.51
C35-Mafia organized crime offers you job opportunities that the State is not able to give	0.40		0.36		0.29

R = reversed score

2   *Table 2.* **Study 2 18-items bifactor model's factor loadings and commonality after**
3   **Confirmatory Factor Analysis**. For each item factor loadings relative to the general factor and
4   specific factors are reported.

Study 2 18-item bifactor model internal consistency

McDonald's Omega total (ωT) and Omega hierarchical (ωH) are reported for the general factor *Mafia Attitude* and for the three specific factor *Behaviors*, *Cognitions* and *Emotions-Cognitions*.

Factor	ωT	ωH
Mafia Attitude	0.92	0.78
Behavior	0.87	0.60
Cognitions	0.71	0.29
Emotions-Cognitions	0.88	0.59

1 *Table 5.* **Study 2 18-item bifactor model internal consistency.** McDonald's Omega total (ωT)
2 and Omega hierarchical (ωH) are reported for the general factor *Mafia Attitude* and for the three
3 specific factor *Behaviors*, *Cognitions* and *Emotions-Cognitions*.

Study 2 Model comparison for construct validity.

For Discriminant, Convergent and Unidimensional models Chi-square, Degrees of Freedom, Akaike Information Criterion, and Bayesian Information Criterion are reported.

Model	χ2	df	AIC	BIC
Discriminant	401.10	1592	75493	76200
Convergent	507.767	1593	75661	76364
Unidimensional	2192.81	1652	78234	78703

2 *Table 6.* **Study 2 Model comparison for construct validity.** For Discriminant, Convergent and
3 Unidimensional models Chi-square, Degrees of Freedom, Akaike Information Criterion, and
4 Bayesian Information Criterion are reported.