

— SCHOLARLY PUBLISHING INSIGHTS

USING OUR DATA TO EXPLORE PERFORMANCE TRENDS

IAN POTTER

PUBLISHING & ASSOCIATIONS

DECEMBER 2016

Clarivate
Analytics

Formerly the IP & Science
business of Thomson Reuters

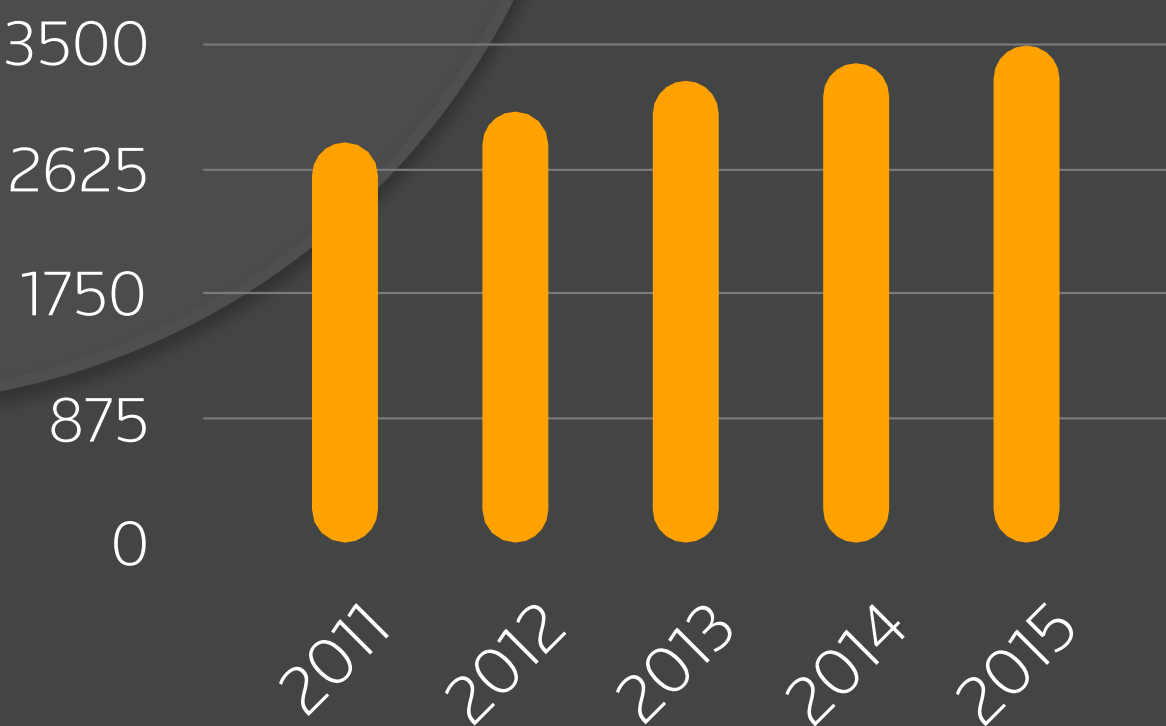
TWO UNIQUE DATASETS

SCHOLARONE
MANUSCRIPTS

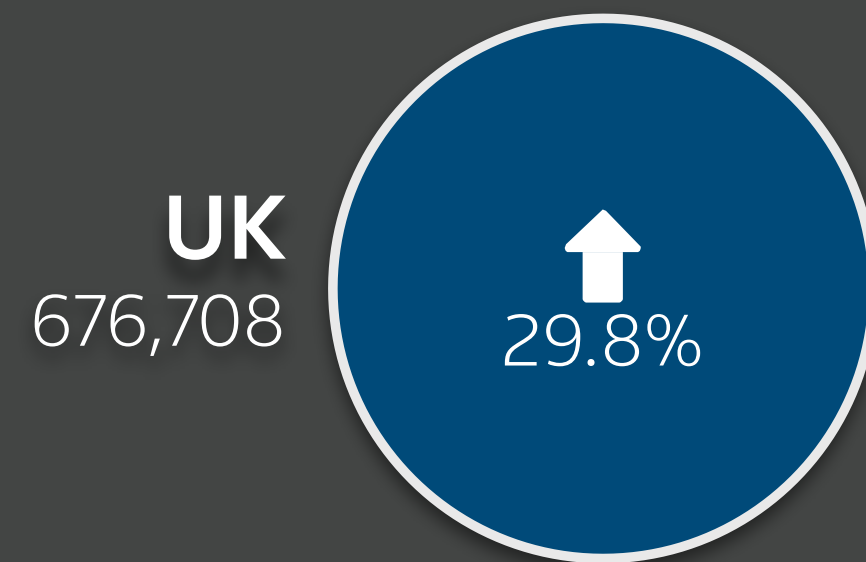
WEB OF SCIENCE

6,700
JOURNALS

12,700
JOURNALS



AVAILABLE METRICS



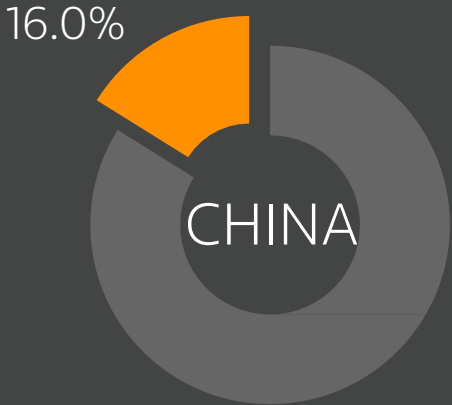
SUBMISSIONS

from ScholarOne Manuscripts data

- ▶ original
- ▶ revised
- ▶ resubmitted
- ▶ total

Growth 2011–2015

AVAILABLE METRICS

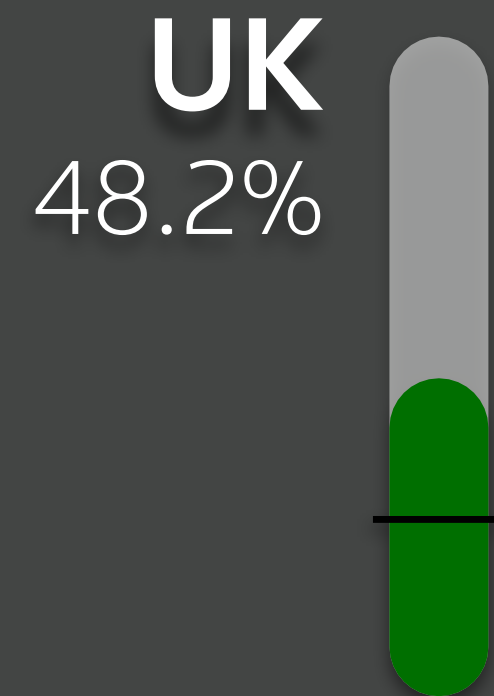


SUBMISSIONS

from ScholarOne Manuscripts data
Proportion of total submissions and change over 5 years



AVAILABLE METRICS



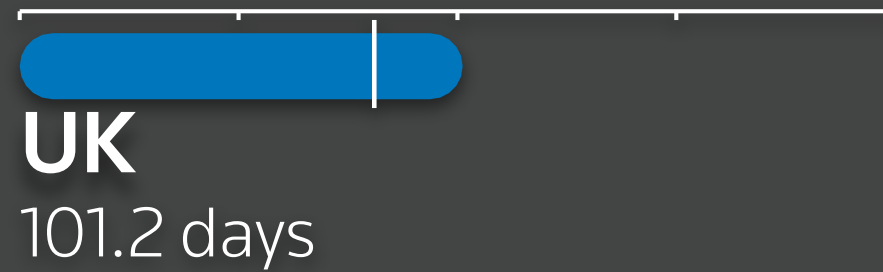
ACCEPT RATES

from ScholarOne Manuscripts data -
proportion of papers with a final decision
(accept+reject) that were accepted

Also calculated:

- ▶ reviewer invitation accept rate
- ▶ reject without review rate

AVAILABLE METRICS



TIME TO DECISION

from ScholarOne Manuscripts data

- ▶ time to (any) first decision
- ▶ time to final decision (accept or reject)
- ▶ time to accept
- ▶ time to reject
- ▶ time to reject without review

AVAILABLE METRICS

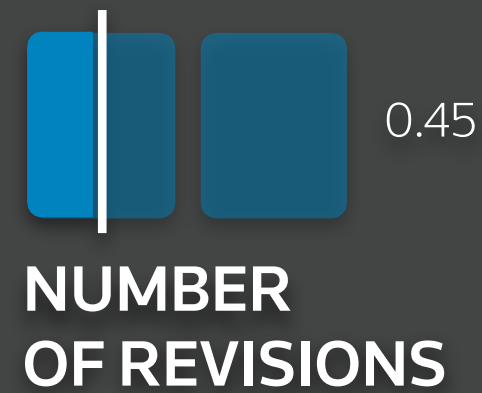


COMPLETED REVIEWS PER DECISION

from ScholarOne Manuscripts data

- ▶ number of reviews required to reach (any) decision

AVAILABLE METRICS



NUMBER OF REVISIONS

from ScholarOne Manuscripts data

- ▶ number of revisions required to reach a final decision (accept, reject)

ANALYSIS FRAMING



GEOGRAPHY

from ScholarOne Manuscripts data.
Country of submitting author affiliation

ANALYSIS FRAMING



RESEARCH AREAS

ScholarOne Manuscripts + Web of Science. Uses WoS subject categories (and other mappings) overlaid onto submission data

ANALYSIS FRAMING

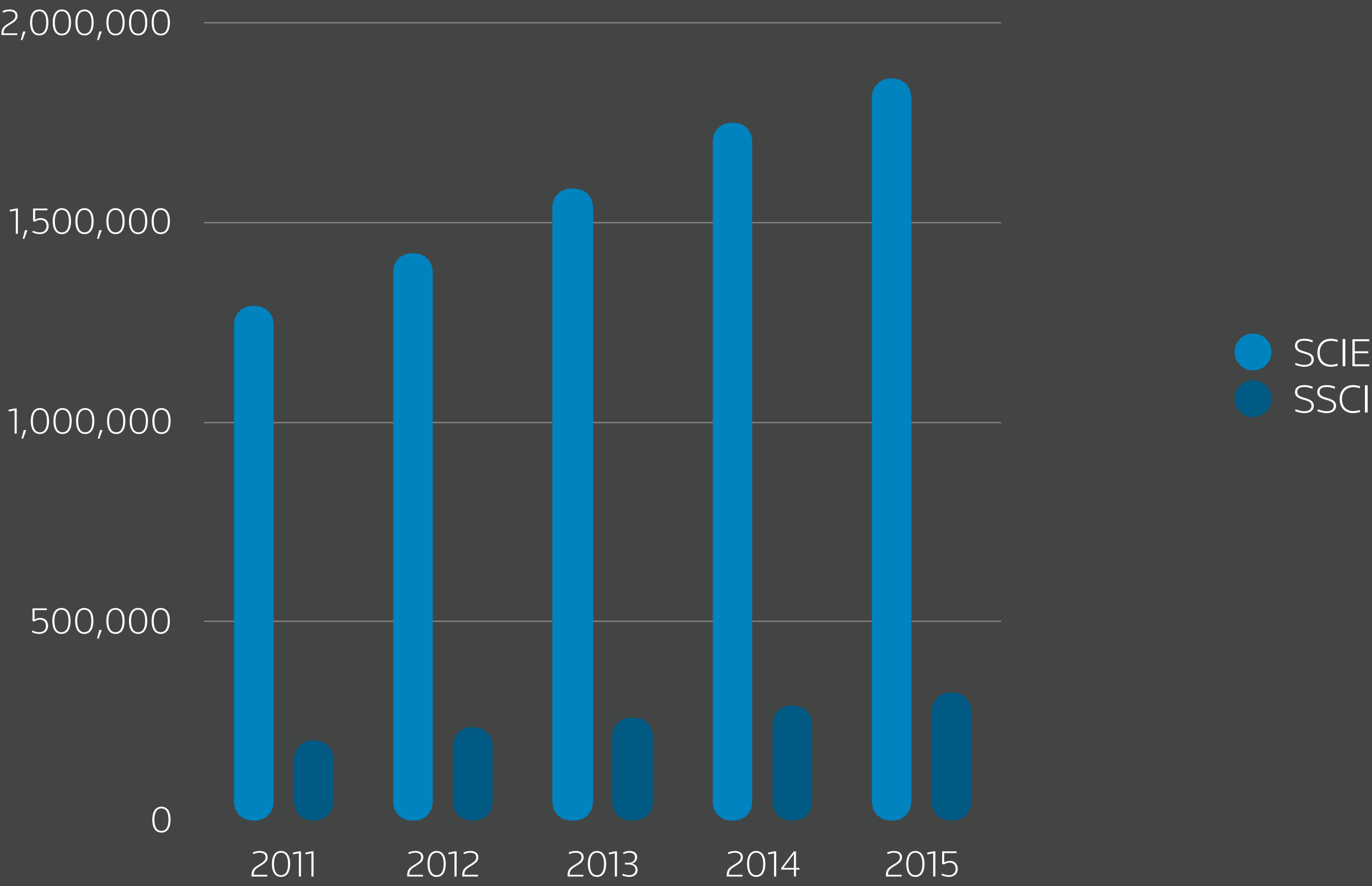


IMPACT QUARTILE

ScholarOne Manuscripts + Web of Science. Uses WoS Journal Impact Factor quartiles

Note. This is a preliminary, exploratory analysis — the aim is to establish where we can expose useful and relevant insights...

A STORY OF GROWTH



Growing Pains. Where submissions originate, how many will be accepted, and the time taken to reach a decision.

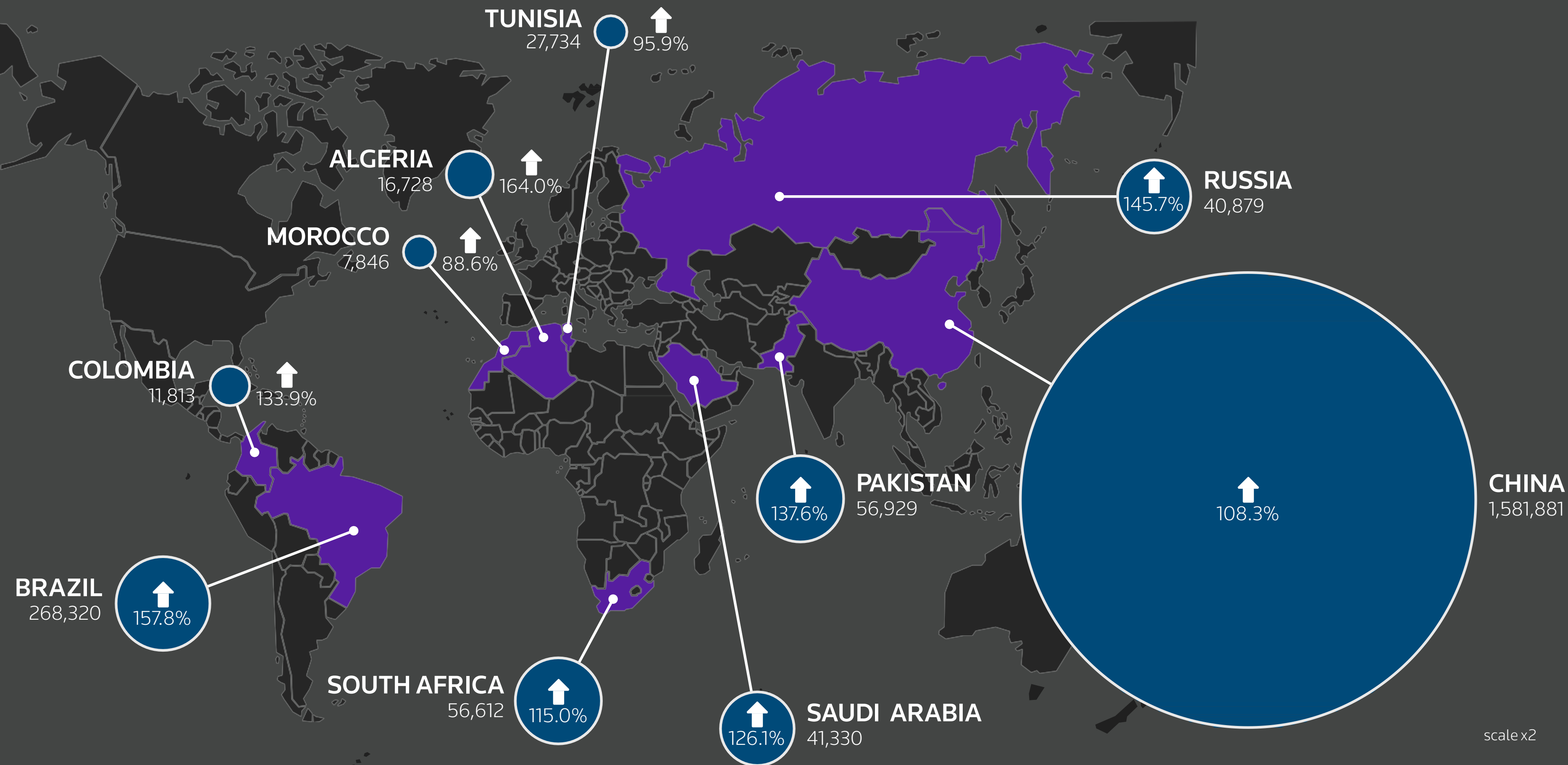
GLOBAL SUBMISSION TRENDS



GLOBAL SUBMISSION TRENDS



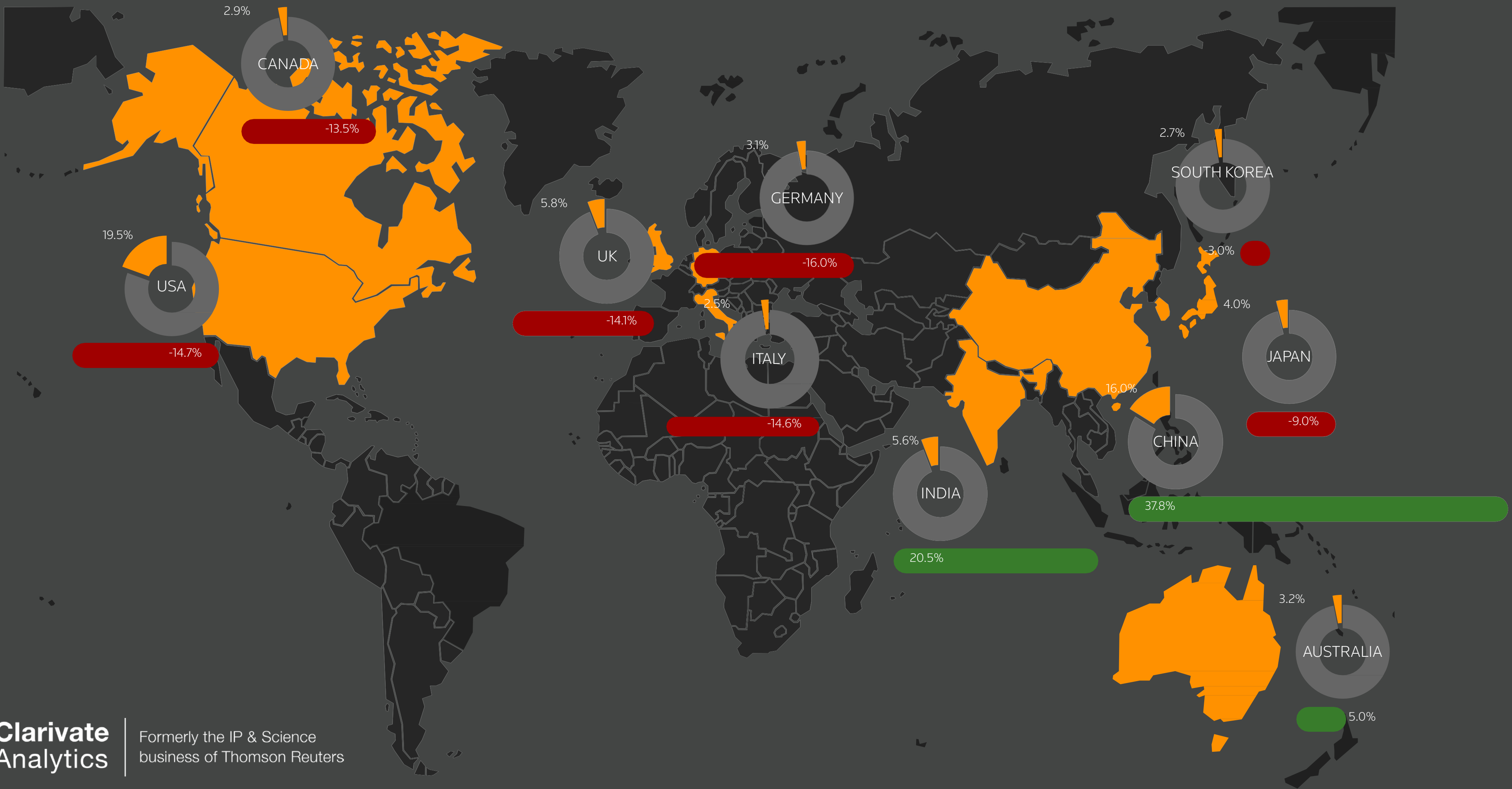
GLOBAL GROWTH — TOP 10 COUNTRIES



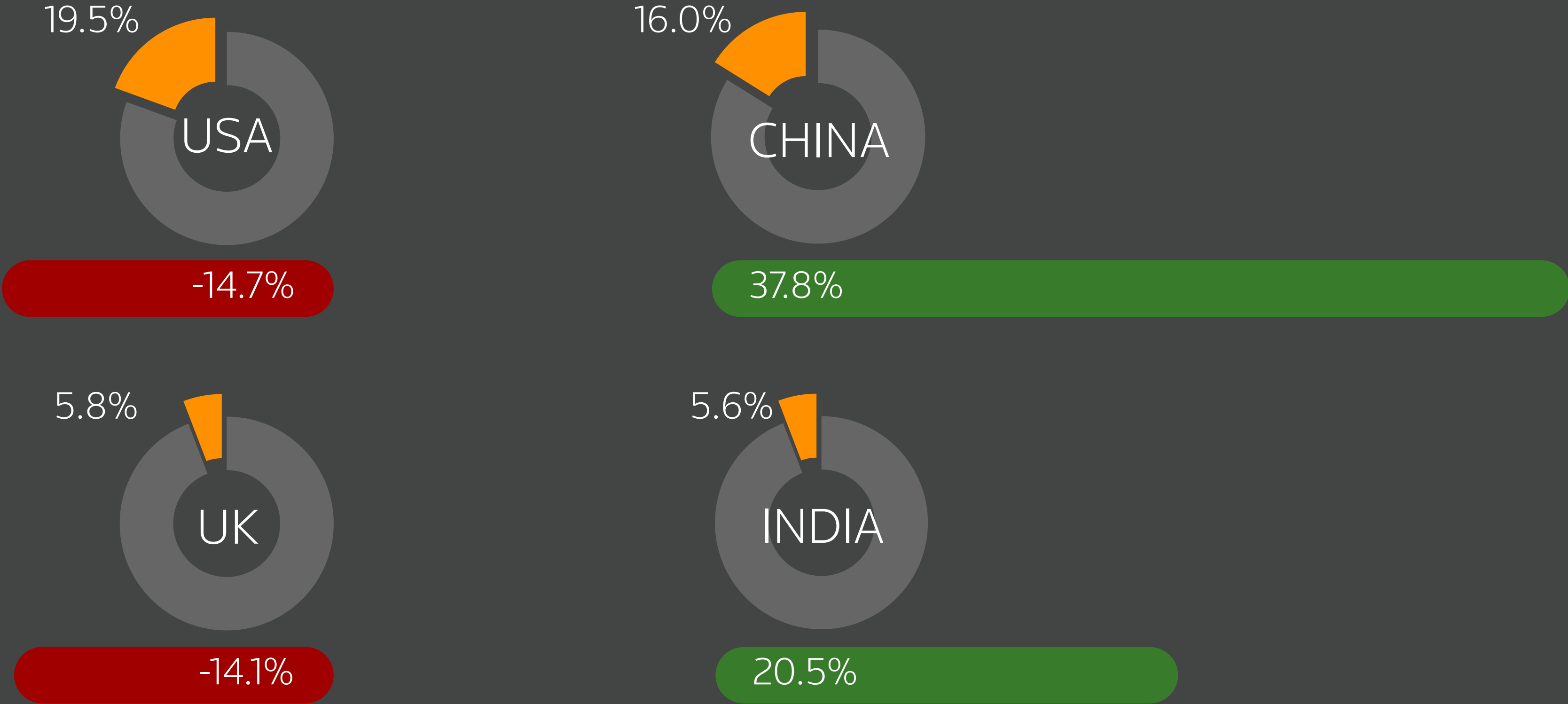
GLOBAL GROWTH — TOP 10 COUNTRIES



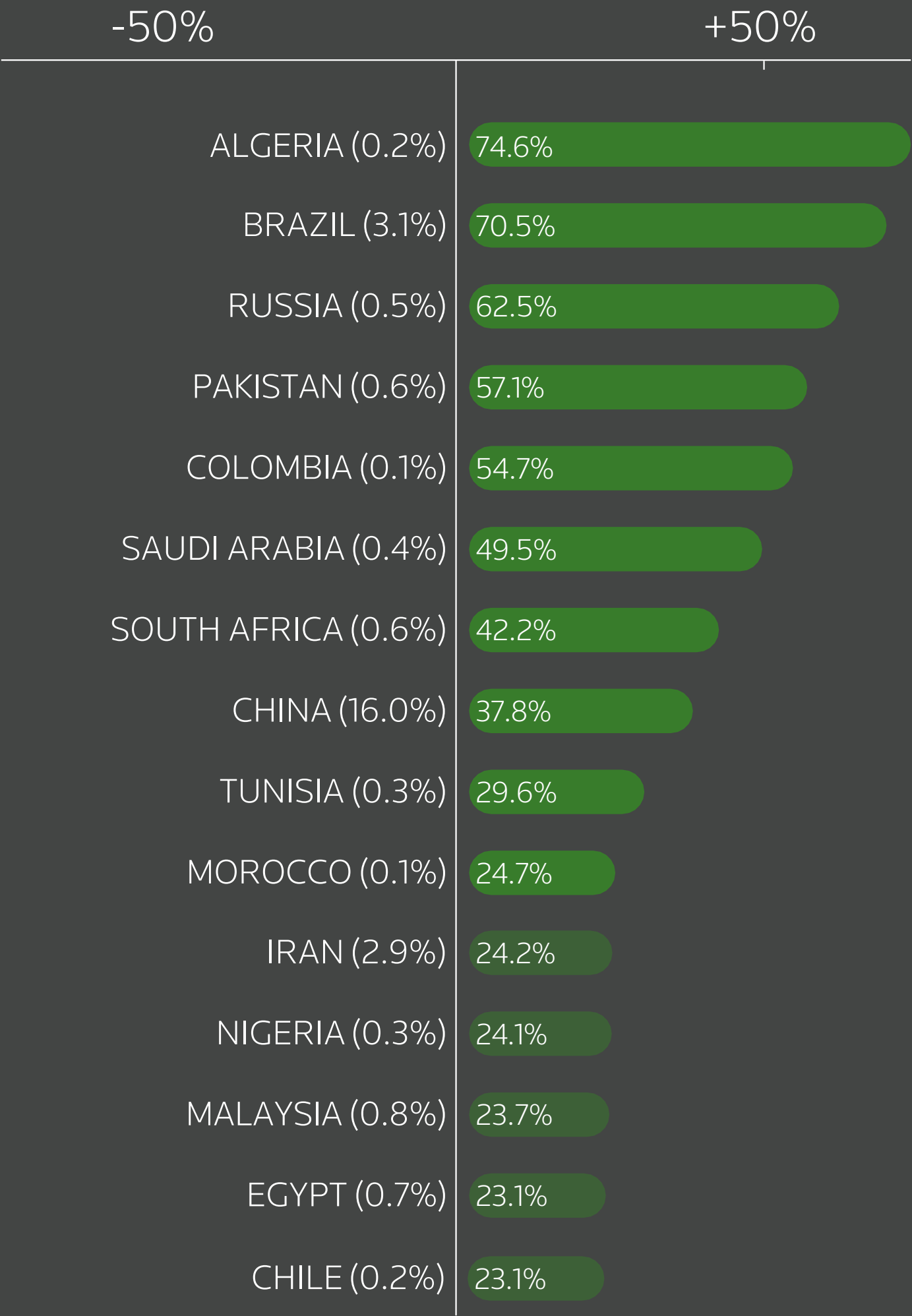
PROPORTION OF GLOBAL SUBMISSIONS



PROPORTION OF GLOBAL SUBMISSIONS



GROWTH REGIONS BY PROPORTION



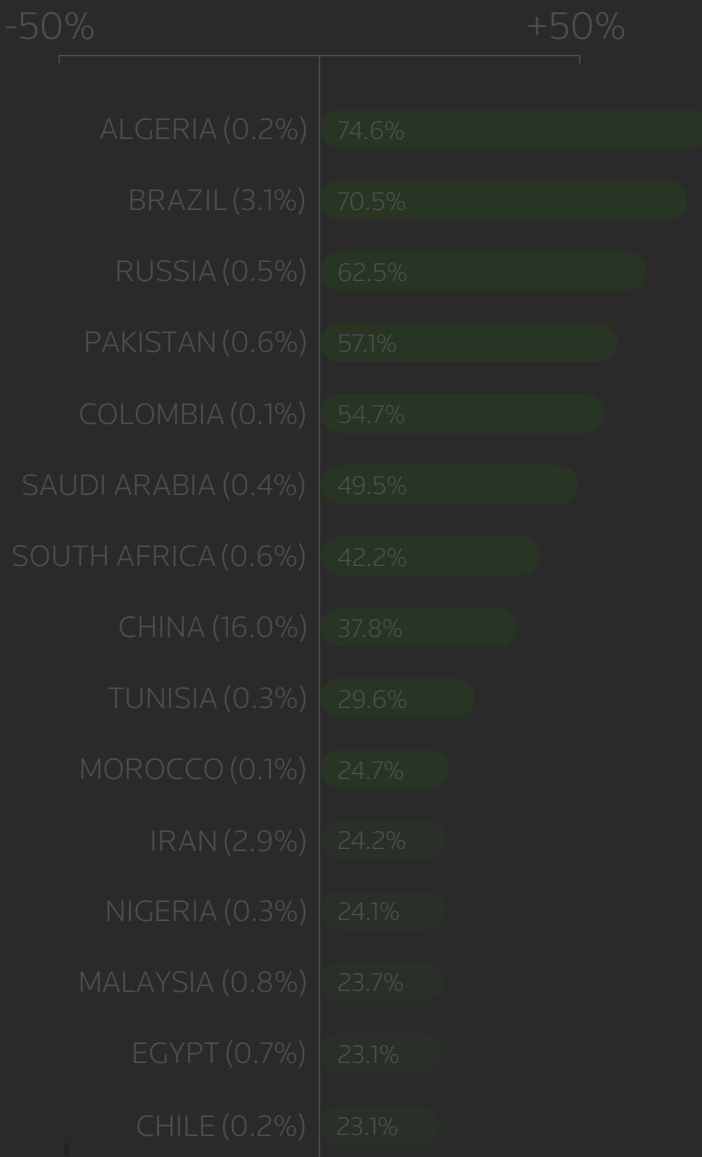
PROPORTION OF GLOBAL SUBMISSIONS

Proportional Growth. Showing the change in the share of overall submissions demonstrates similar trends.

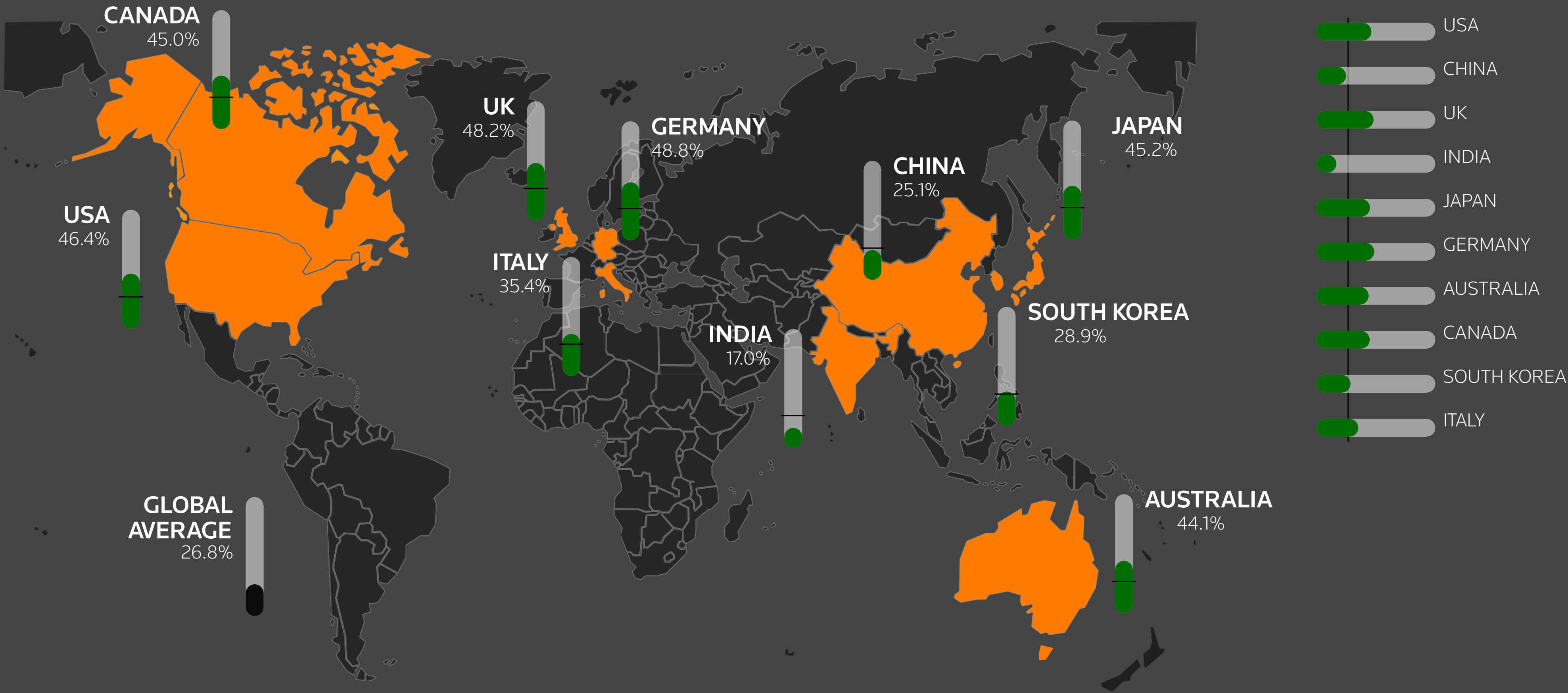


PROPORTION OF GLOBAL SUBMISSIONS

Proportional Growth. Again the share of submissions from emerging regions is growing at the expense of established countries.



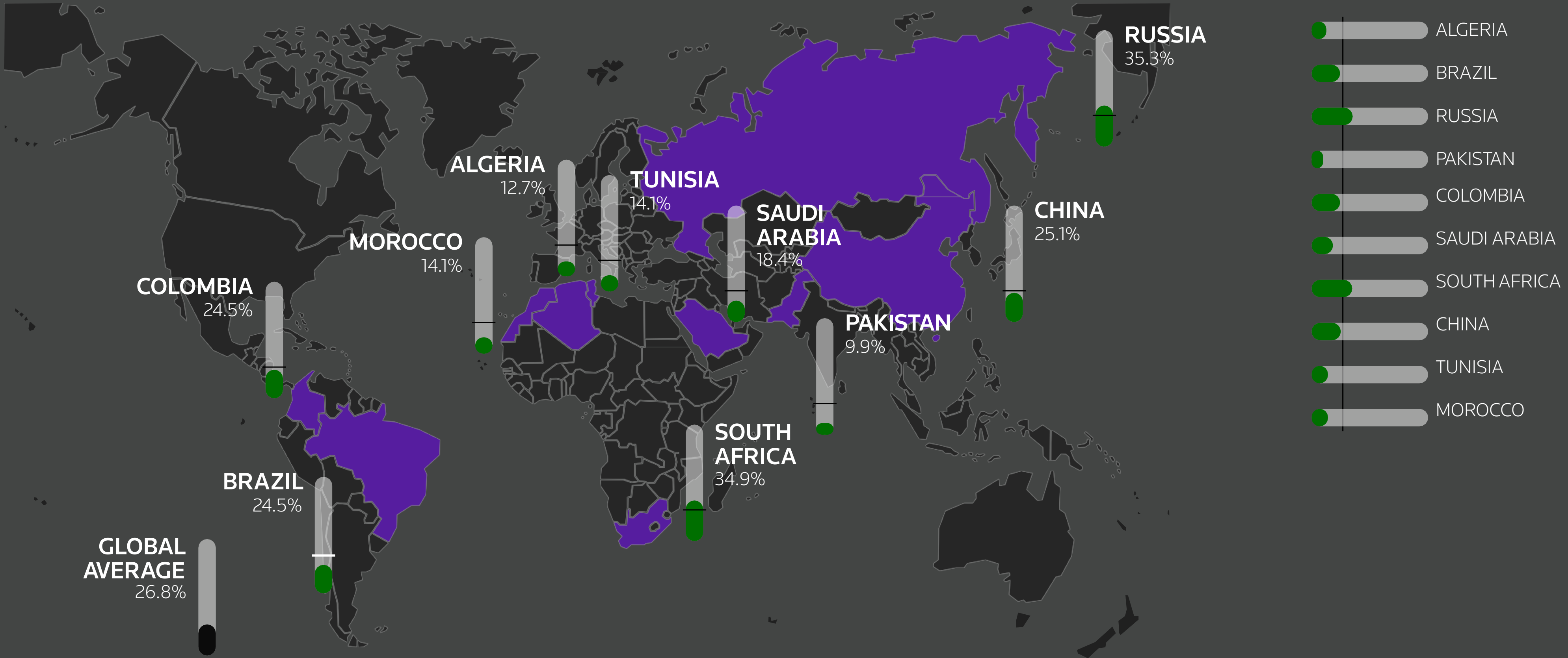
GLOBAL ACCEPT RATES — TOP 10 COUNTRIES



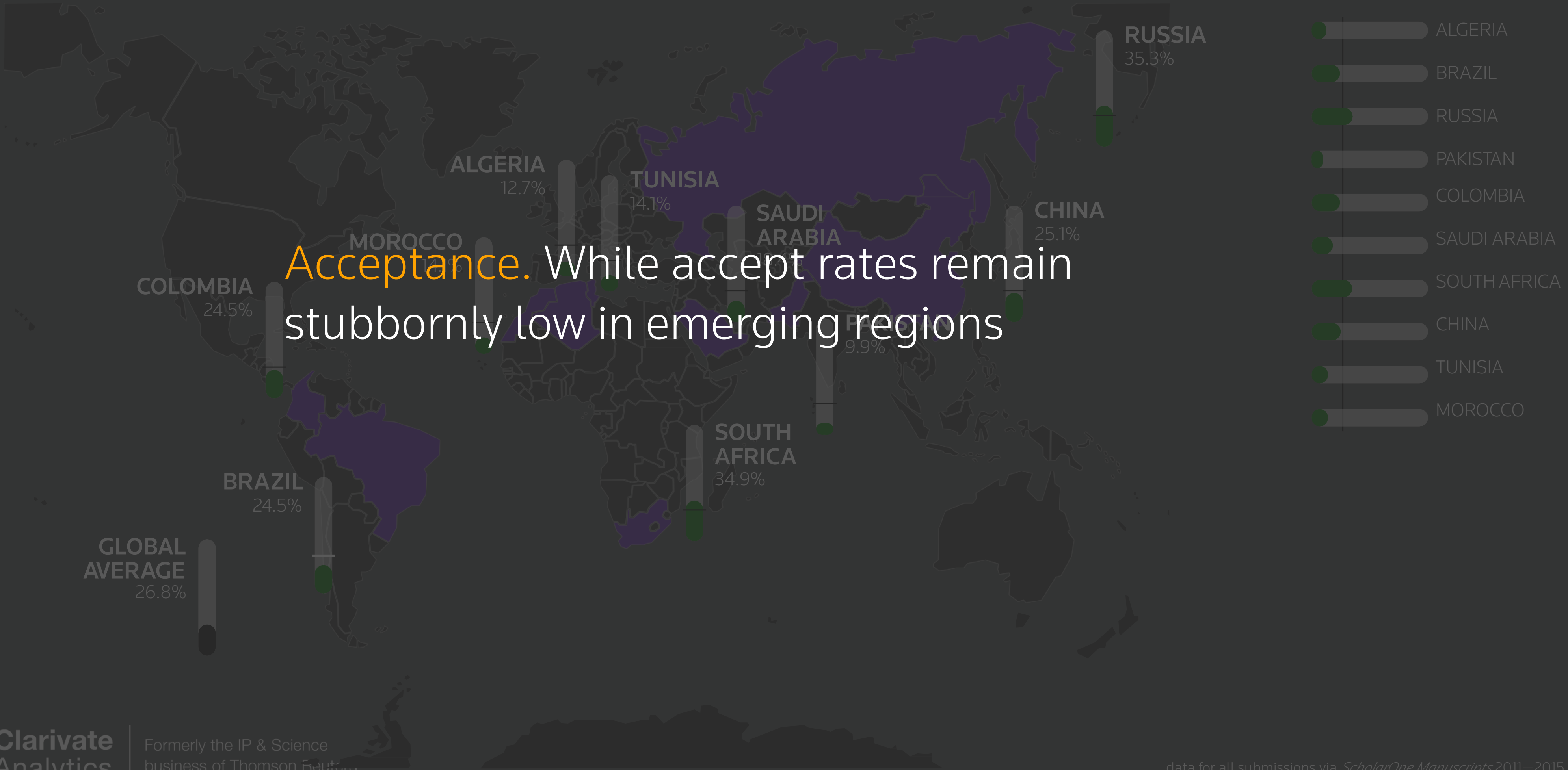
GLOBAL ACCEPT RATES — TOP 10 COUNTRIES



GLOBAL ACCEPT RATE — TOP 10 GROWTH COUNTRIES



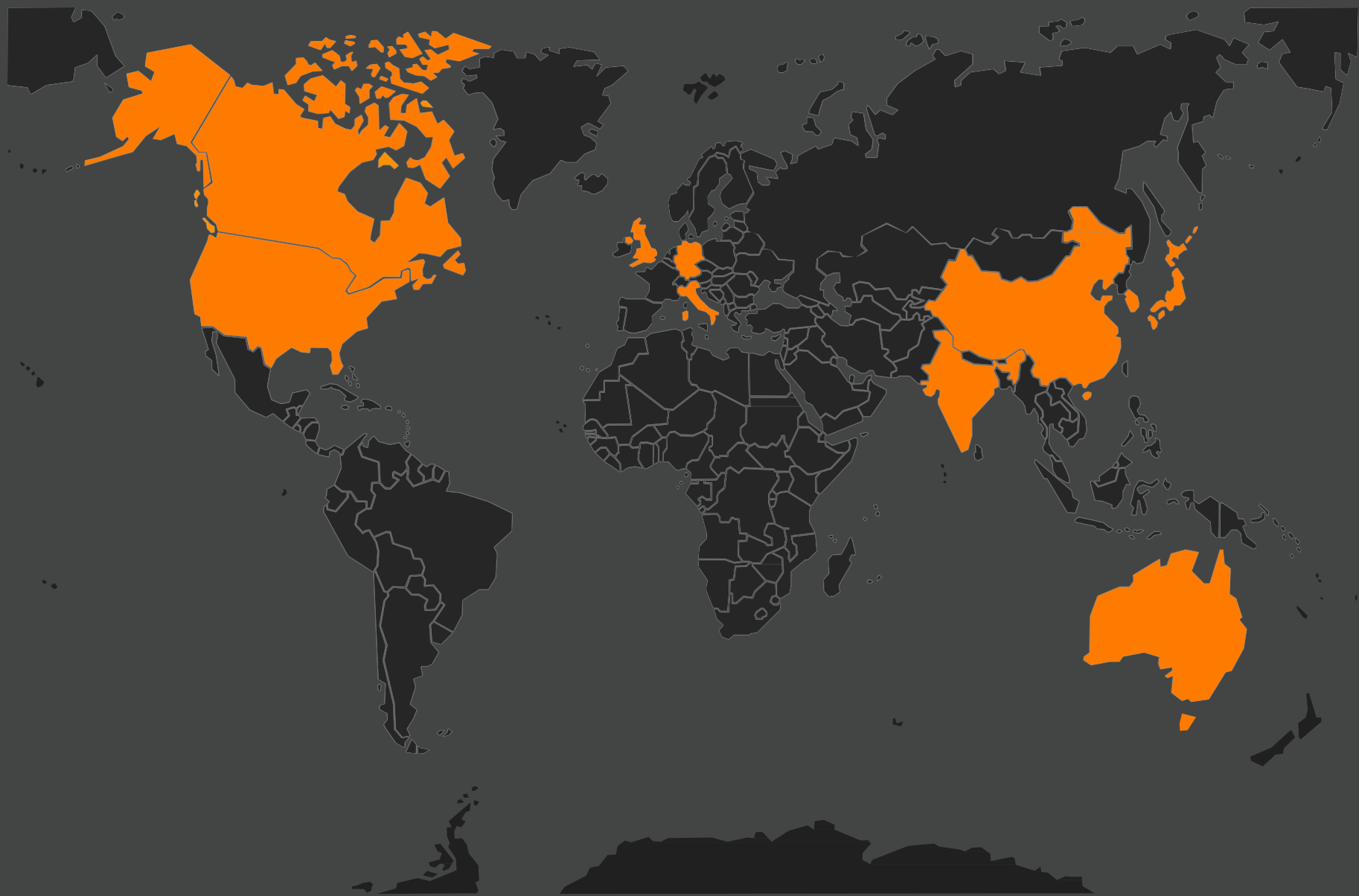
GLOBAL ACCEPT RATE — TOP 10 GROWTH COUNTRIES



DECISION RATES — ACCEPT OR REJECT

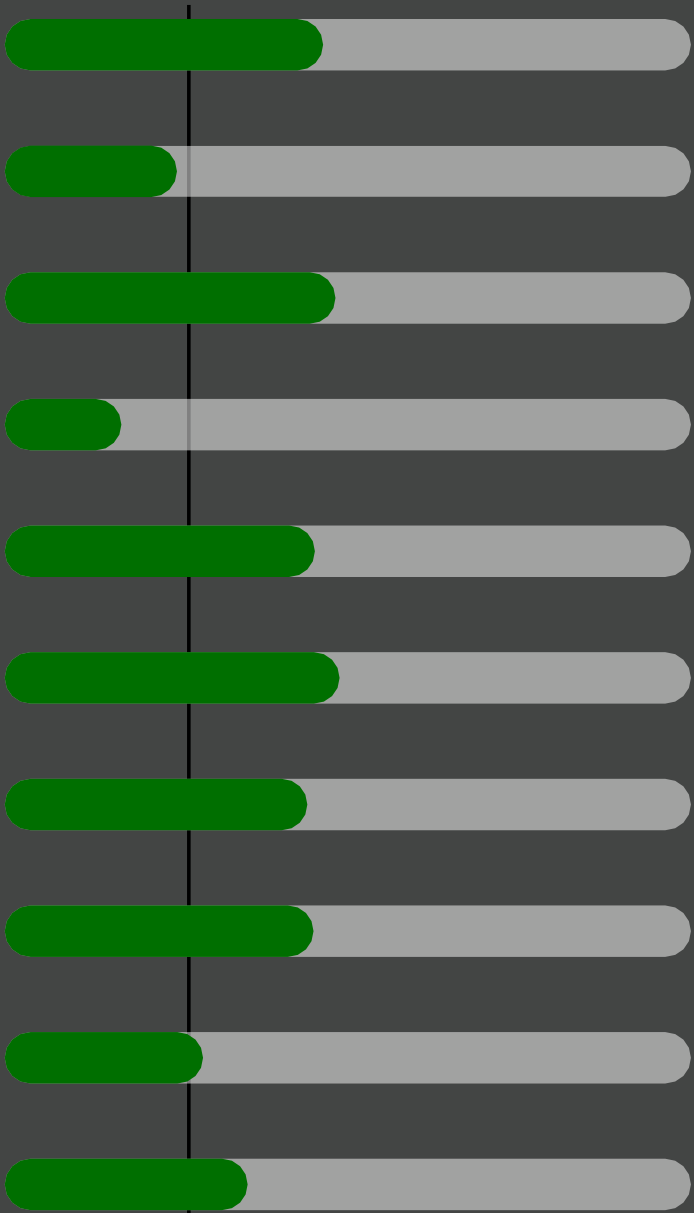
TOP 10 COUNTRIES BY SUBMISSIONS

total submissions 2011–2015



ACCEPT RATE

proportion of decided papers with an accept decision



REJECT W/O REVIEW RATE

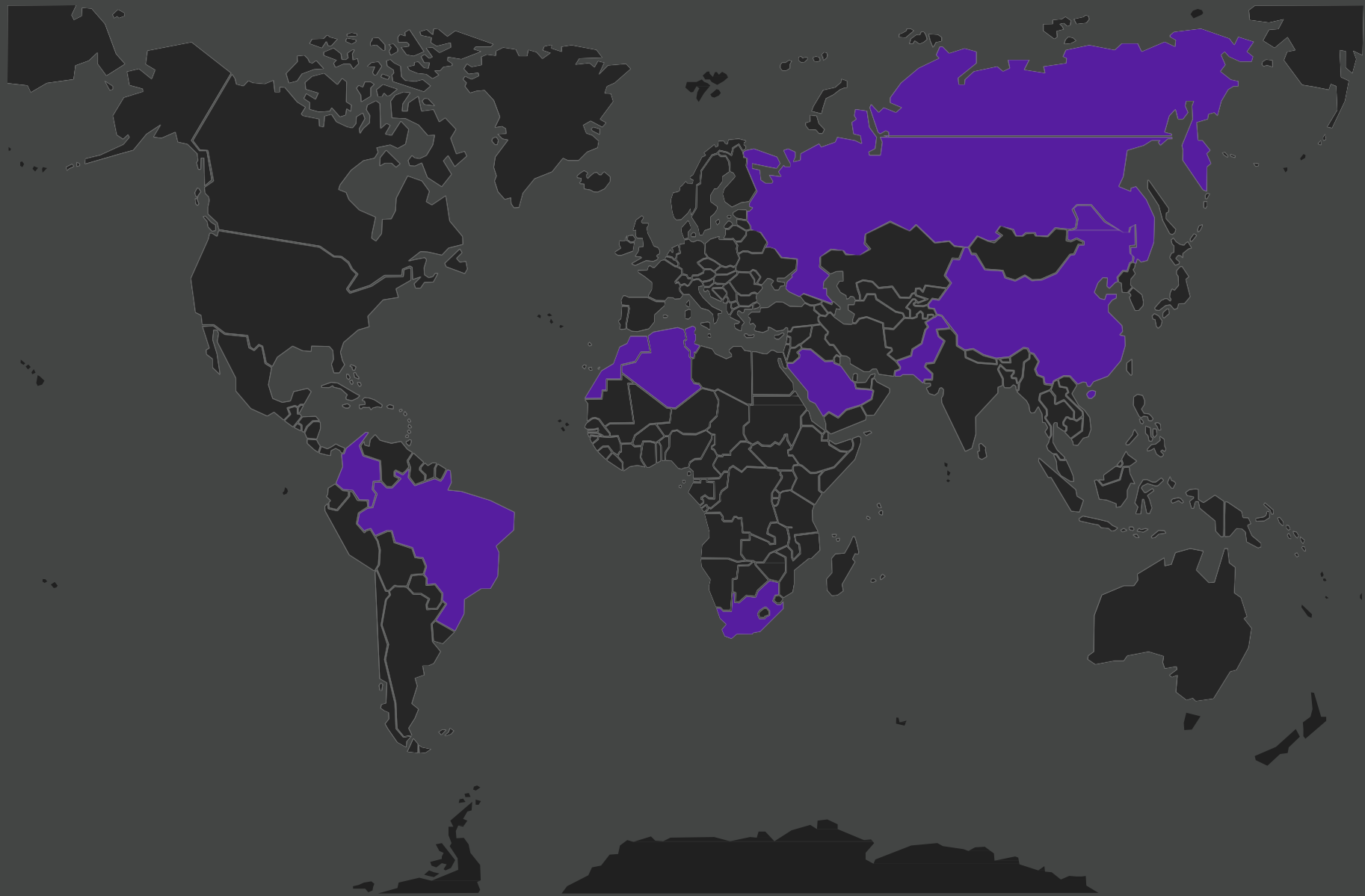
proportion of papers rejected without reviewers



DECISION RATES — ACCEPT OR REJECT

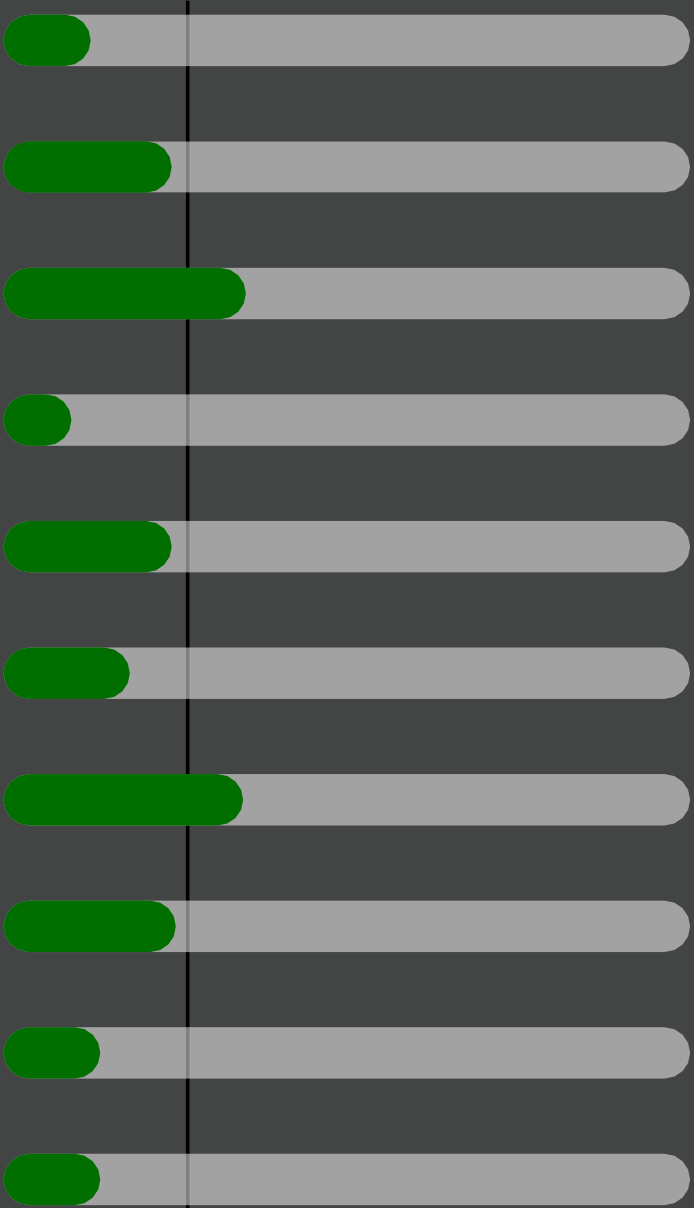
TOP 10 COUNTRIES BY GROWTH

total submissions 2011–2015 for countries with >1000 submissions in 2011



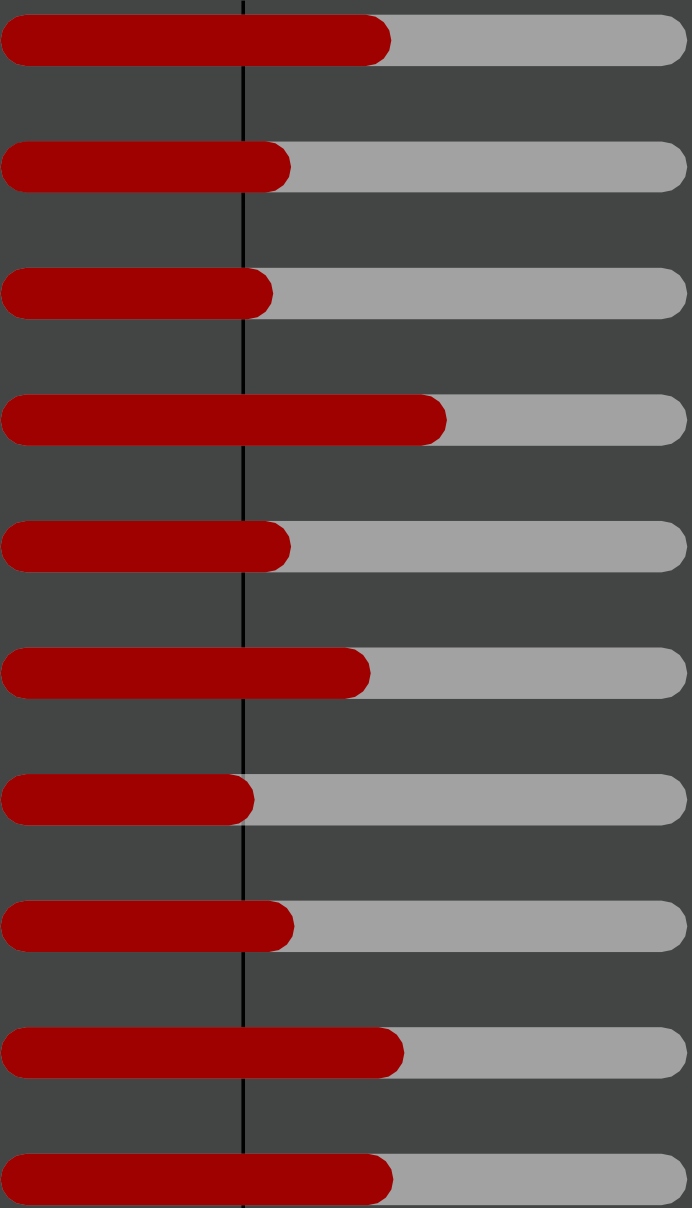
ACCEPT RATE

proportion of decided papers with an accept decision



REJECT W/O REVIEW RATE

proportion of papers rejected without reviewers



ALGERIA
BRAZIL
RUSSIA
PAKISTAN
COLOMBIA
SAUDI ARABIA
SOUTH AFRICA
CHINA
TUNISIA
MOROCCO

DECISION RATES — ACCEPT OR REJECT

TOP 10 COUNTRIES BY GROWTH

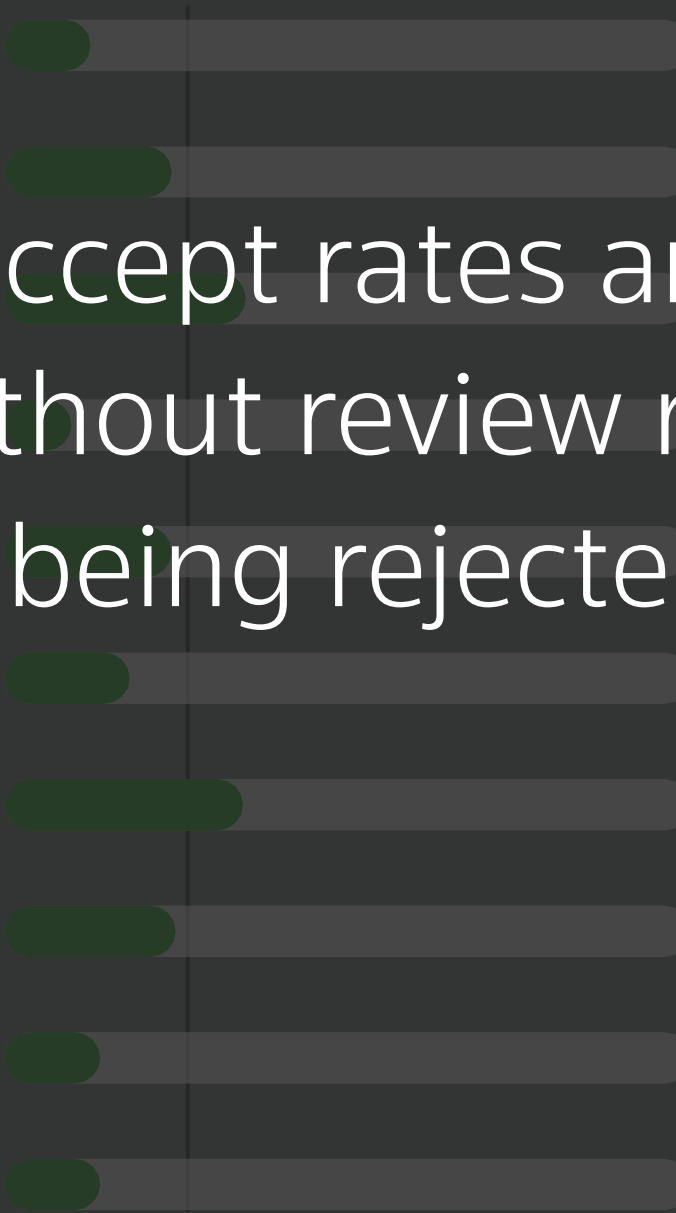
total submissions 2011–2015 for countries with >1000 submissions in 2011



The Fate of Papers. Low accept rates are mirrored by high reject without review rates – many of these papers are being rejected without peer review

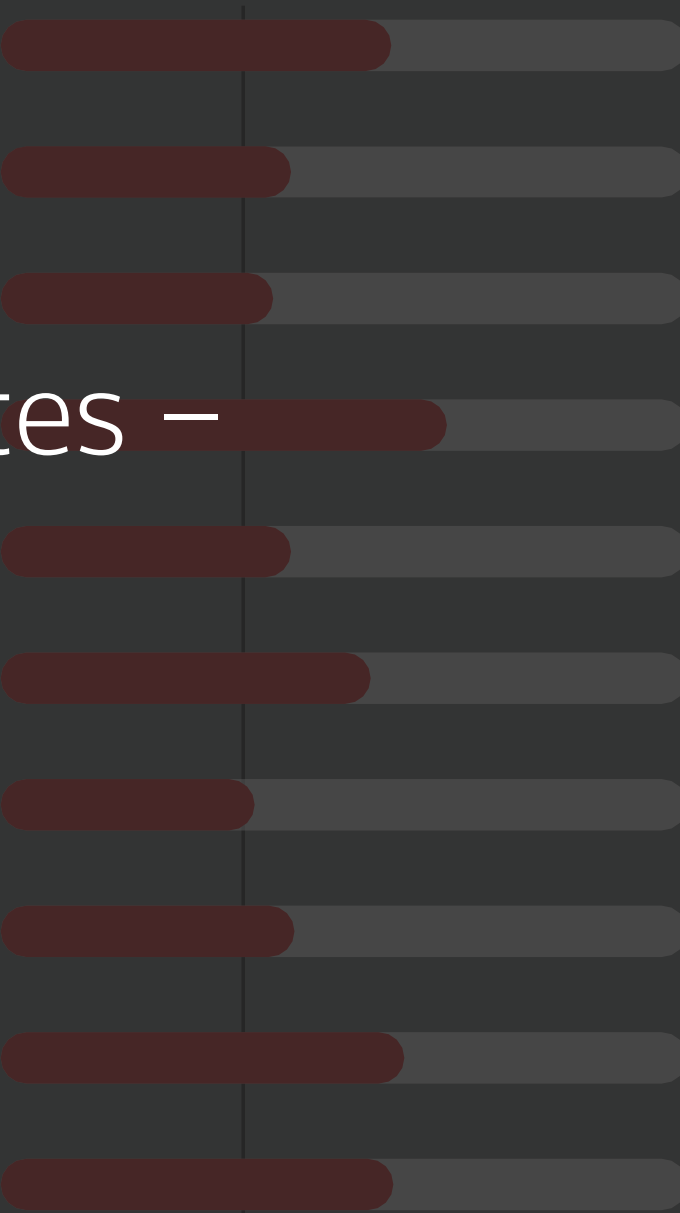
ACCEPT RATE

proportion of decided papers with an accept decision



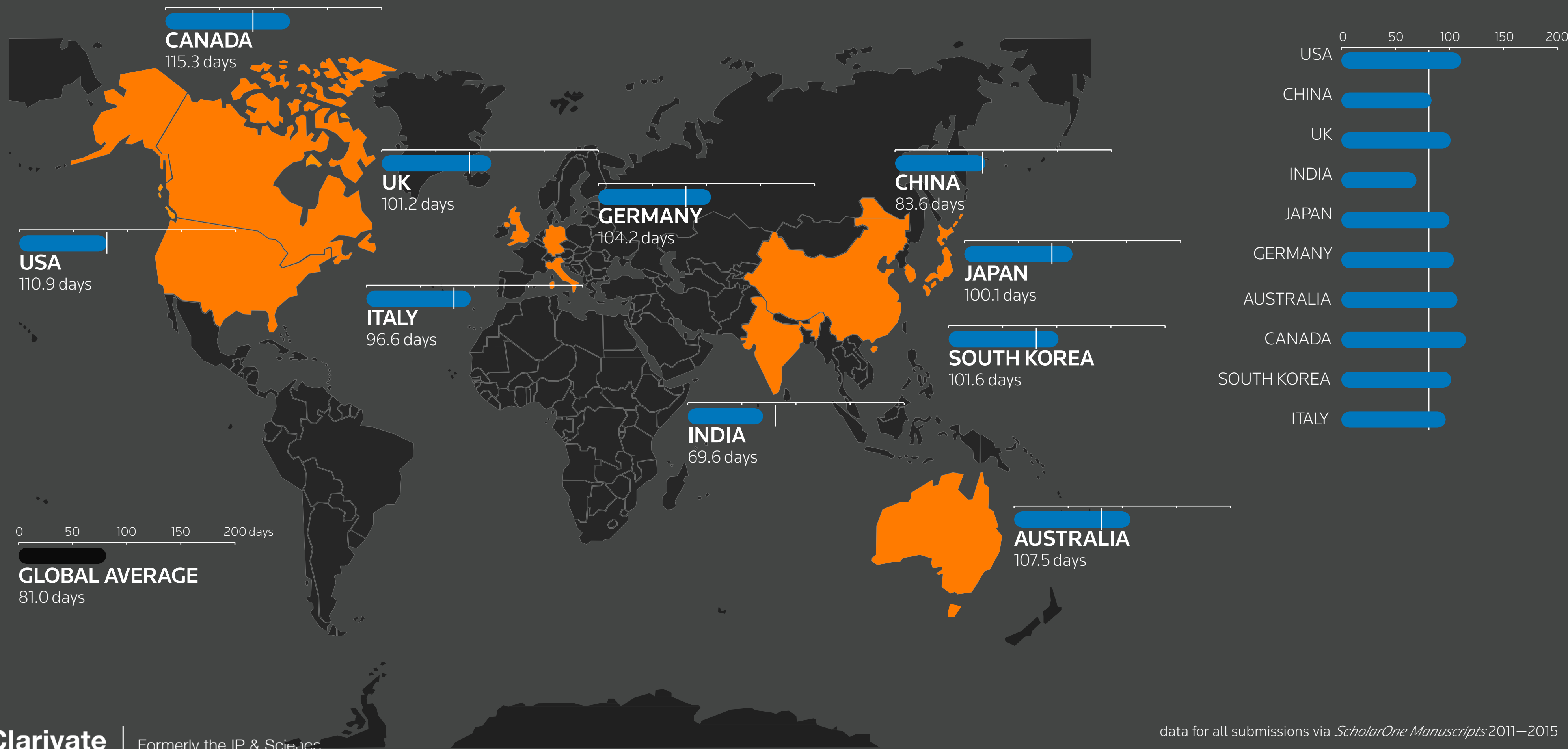
REJECT W/O REVIEW RATE

proportion of papers rejected without reviewers



ALGERIA
BRAZIL
RUSSIA
PAKISTAN
COLOMBIA
SAUDI ARABIA
SOUTH AFRICA
CHINA
TUNISIA
MOROCCO

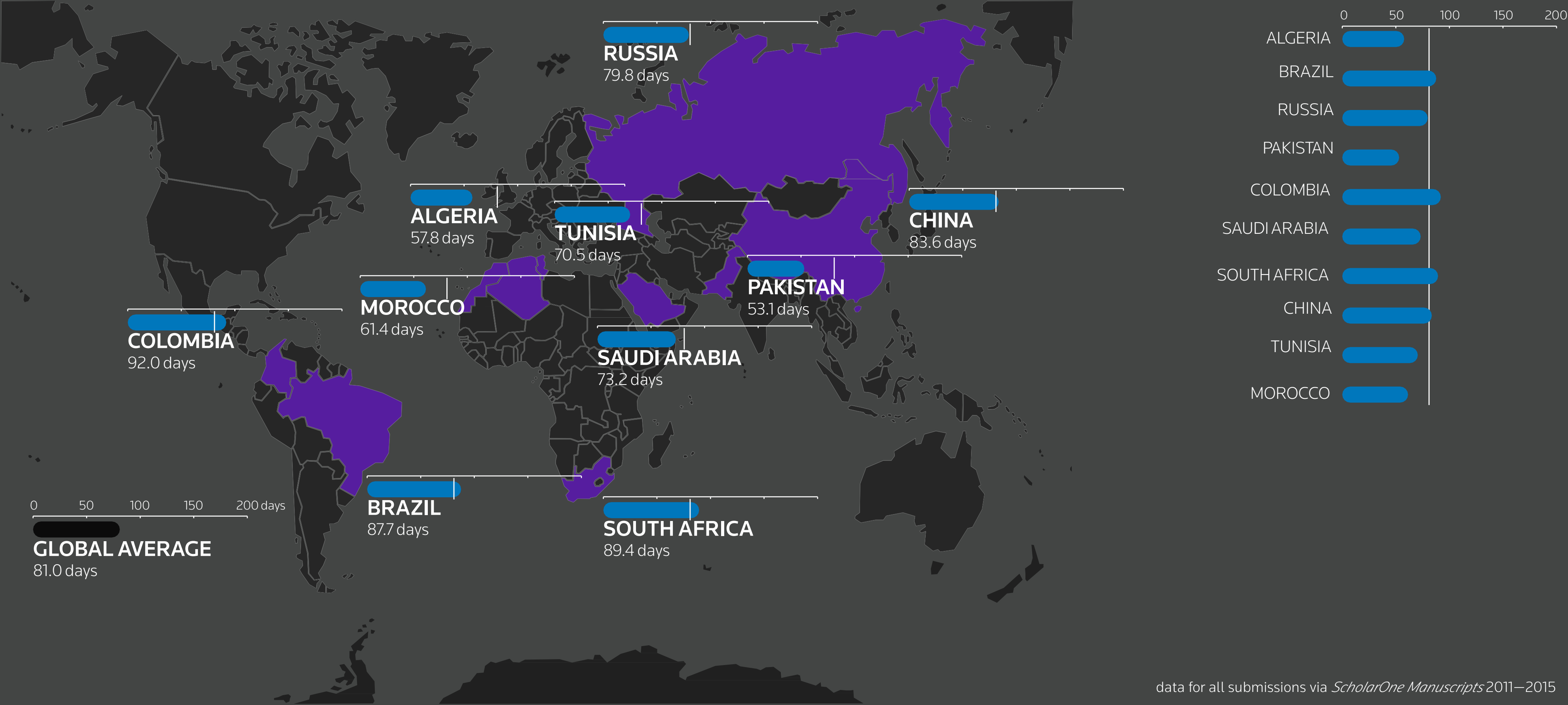
GLOBAL TIME TO FINAL DECISION — TOP 10 COUNTRIES



GLOBAL TIME TO FINAL DECISION — TOP 10 COUNTRIES



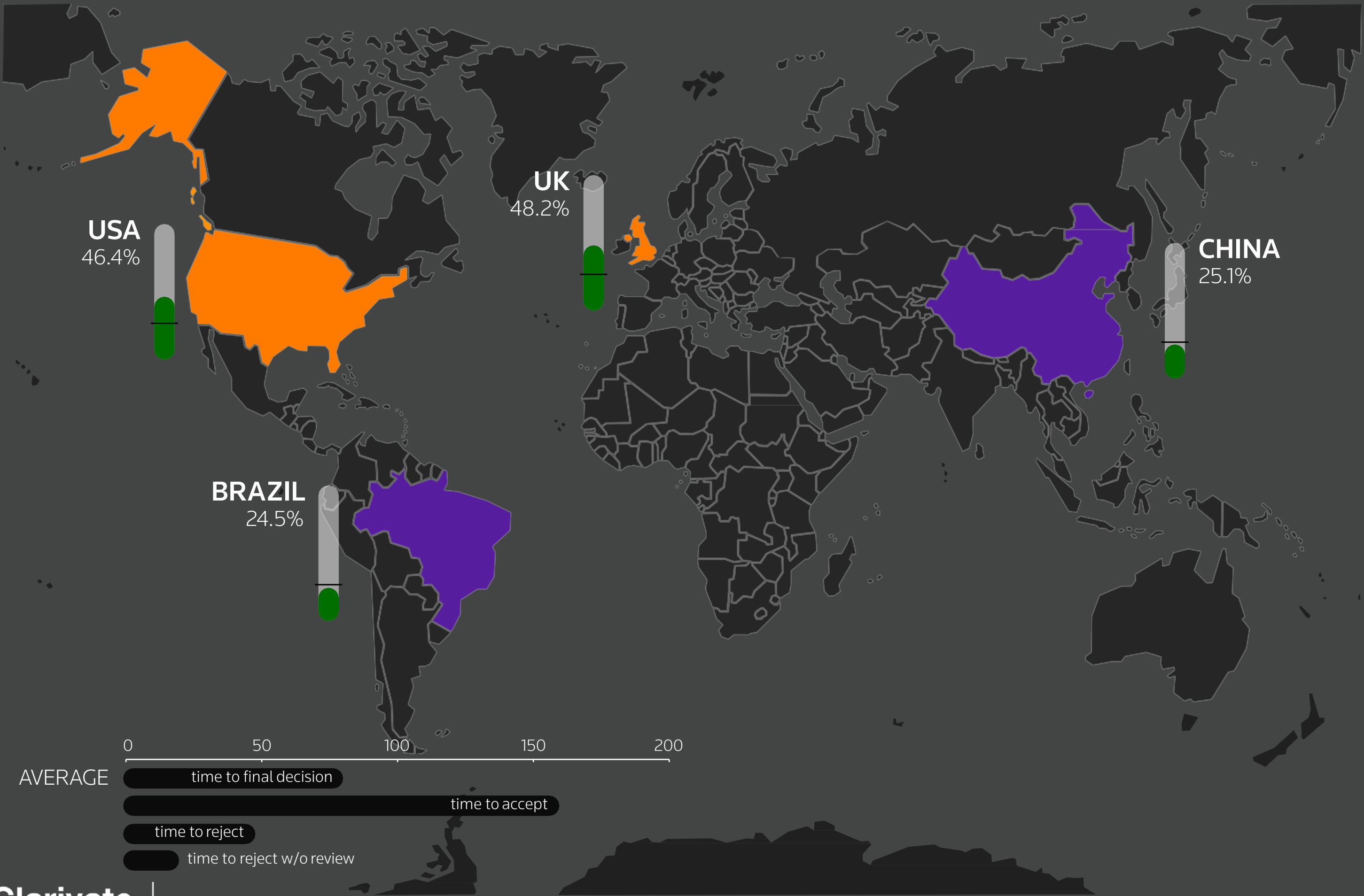
GLOBAL TIME TO FINAL DECISION — TOP 10 COUNTRIES



GLOBAL TIME TO FINAL DECISION — TOP 10 COUNTRIES



DECISION TIMES IN ESTABLISHED VS GROWTH REGIONS



TIME TO FINAL DECISION	
USA	110.9
CHINA	83.6
UK	101.2
BRAZIL	87.6

TIME TO ACCEPT DECISION	
USA	134.8
CHINA	147.9
UK	133.7
BRAZIL	156.3

TIME TO REJECT DECISION	
USA	73.6
CHINA	56.4
UK	58.4
BRAZIL	50.9

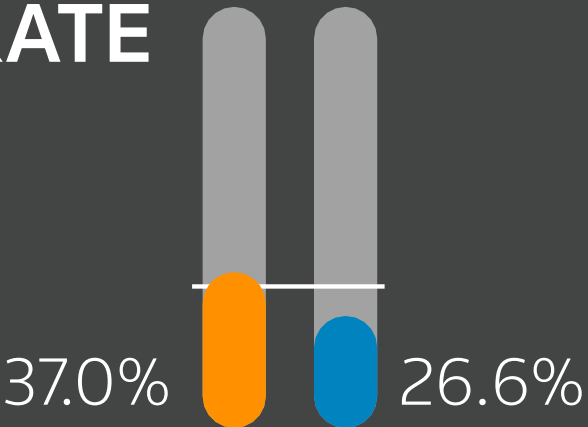
TIME TO REJECT W/O REVIEW DECISION	
USA	30.8
CHINA	28.6
UK	26.8
BRAZIL	22.5

Subject Matters. Which are the biggest disciplines, where is growth, and how do decisions rates and times vary

STEM VS. SOCIAL SCIENCES — OVERALL DECISION RATES

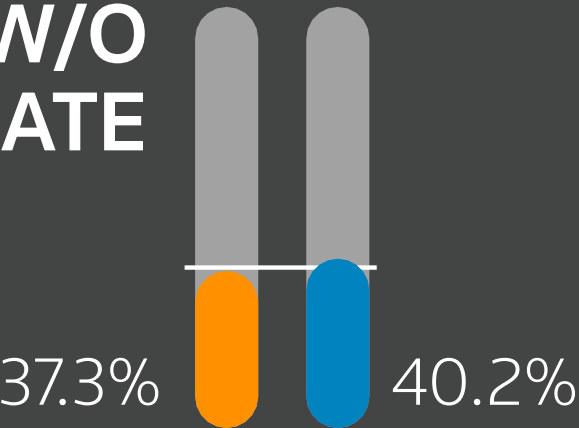
**SCIENCE, TECHNOLOGY,
ENGINEERING, & MEDICINE**
SCIENCE CITATION INDEX – EXPANDED

ACCEPT RATE



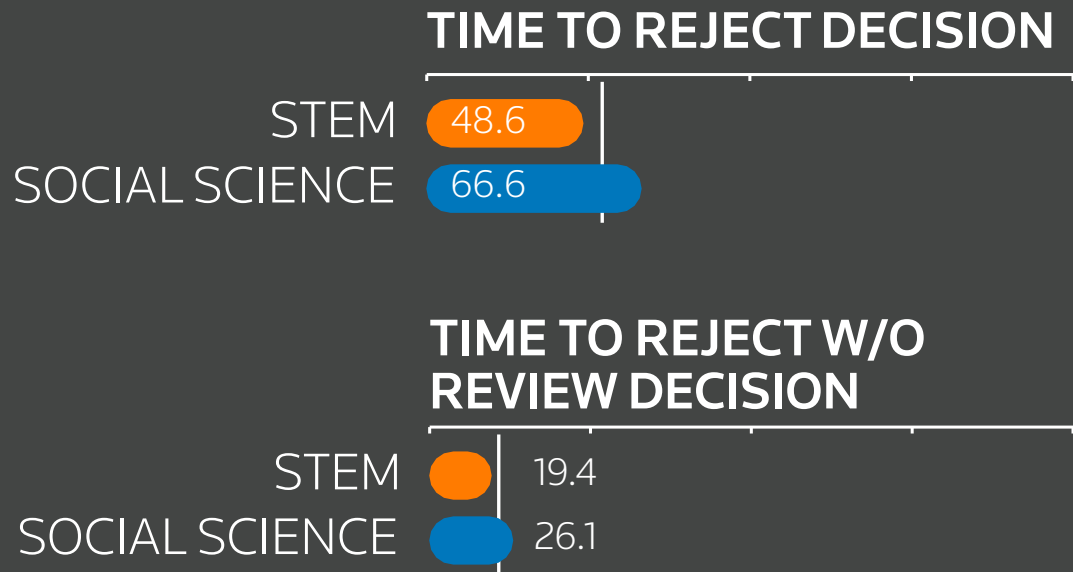
SOCIAL SCIENCES
SOCIAL SCIENCES CITATION INDEX

REJECT W/O
REVIEW RATE

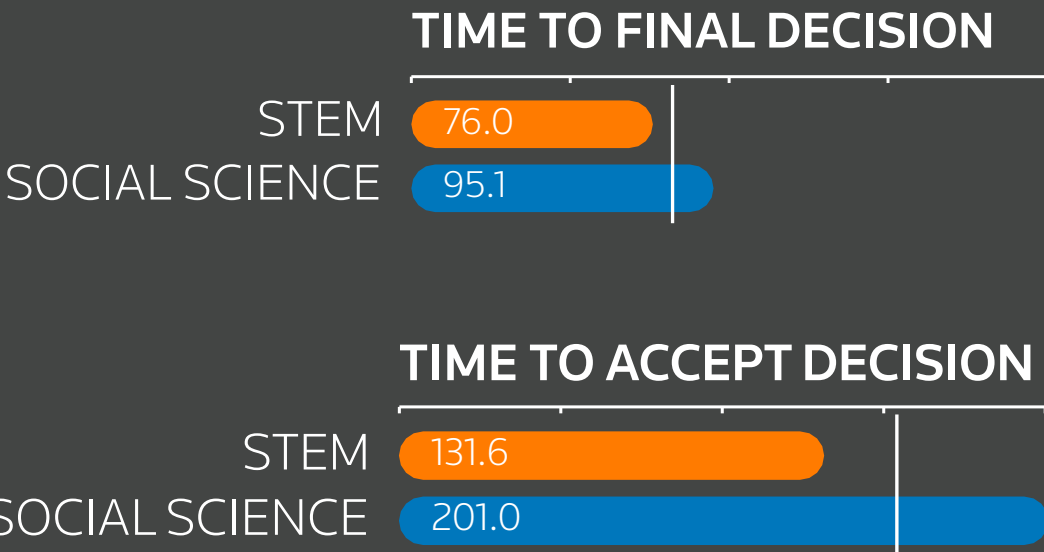


STEM VS. SOCIAL SCIENCES — OVERALL DECISION TIMES

SCIENCE, TECHNOLOGY,
ENGINEERING, & MEDICINE
SCIENCE CITATION INDEX – EXPANDED



SOCIAL SCIENCES
SOCIAL SCIENCES CITATION INDEX



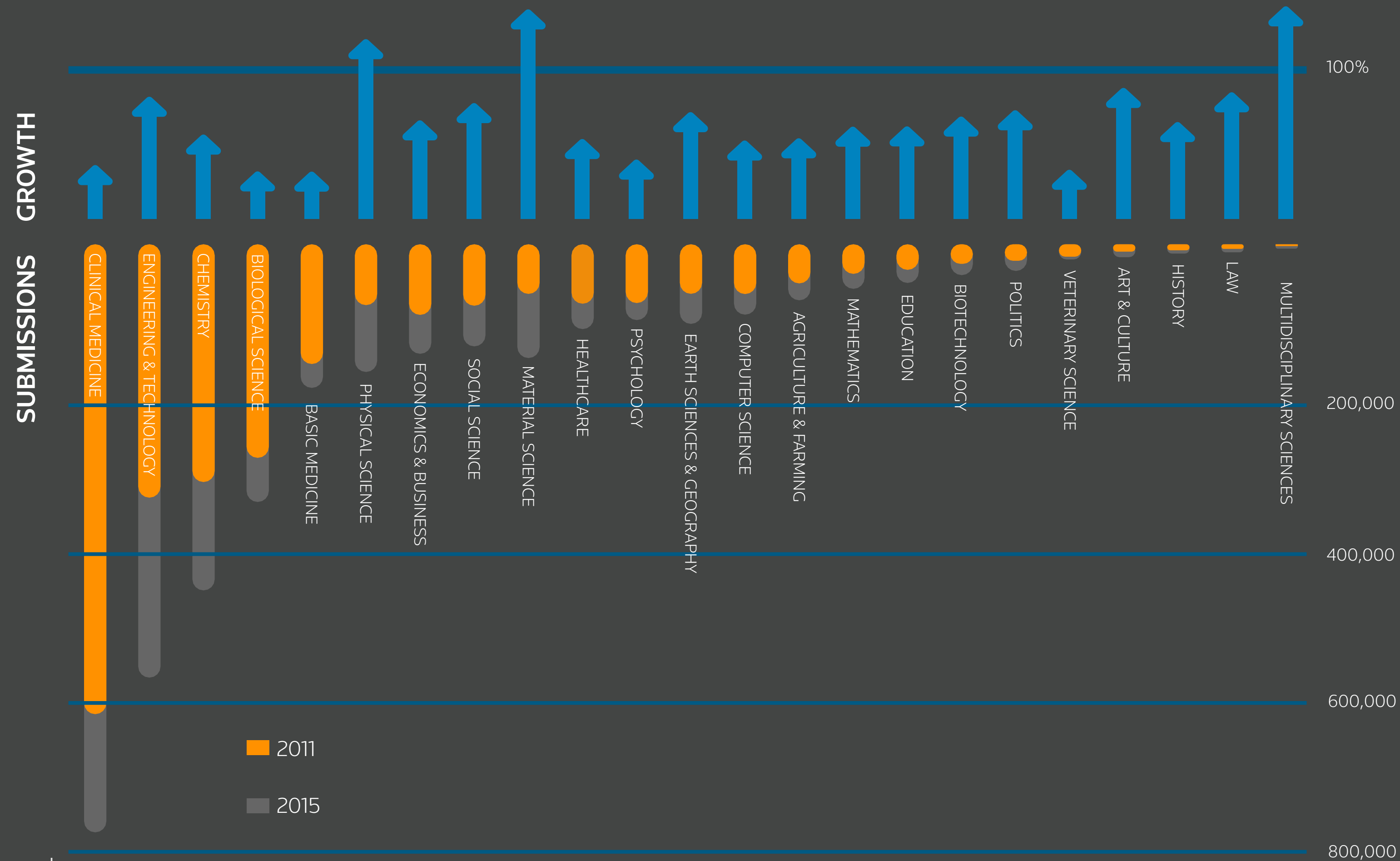
STEM VS. SOCIAL SCIENCES — OVERALL DECISION TIMES

SCIENCE, TECHNOLOGY,
ENGINEERING, & MEDICINE
SCIENCE CITATION INDEX – EXPANDED

A Tale of Two Domains. Accept rates are lower and decision times typically longer in the social sciences.

SOCIAL SCIENCES
SOCIAL SCIENCES CITATION INDEX

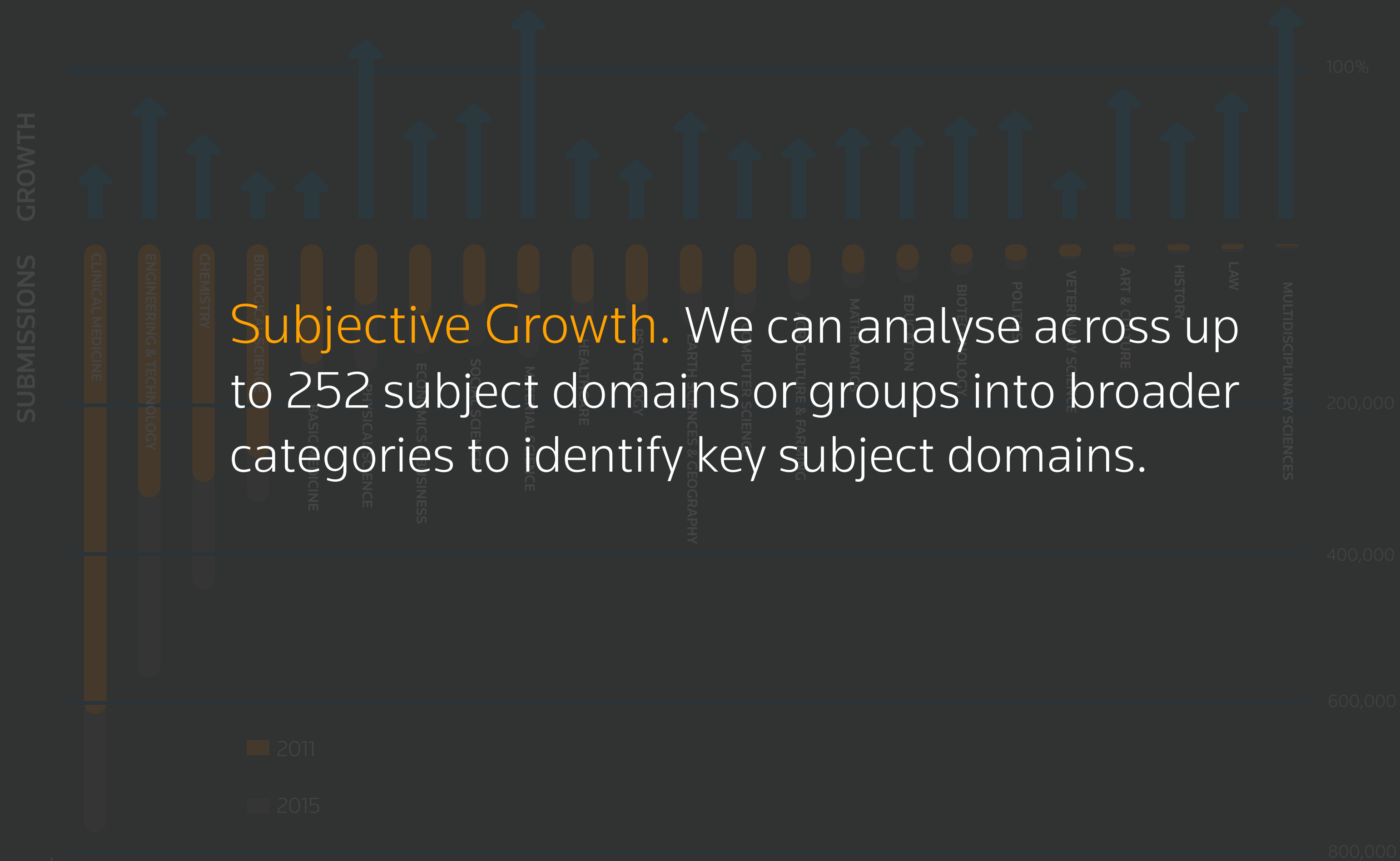
SUBJECT DISCIPLINE GROWTH



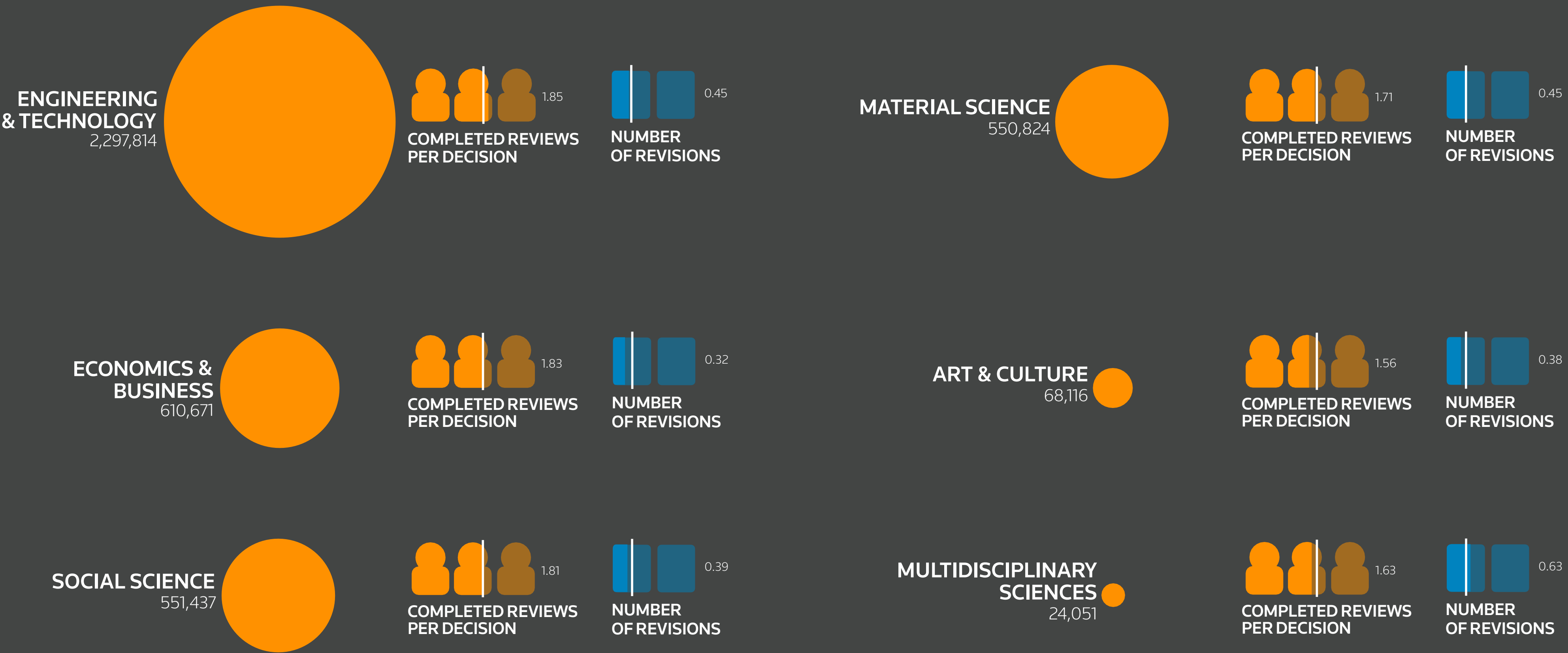
Submissions to all *ScholarOne Manuscripts* journals 2011–2015 mapped to WoS subject categories and then to a simplified version of the OECD subject category scheme

Note that journals may be assigned to more than one category used in the mapping — these values are the sum of all categories

SUBJECT DISCIPLINE GROWTH



COMPARING KEY SUBJECT DOMAINS



COMPARING KEY SUBJECT DOMAINS

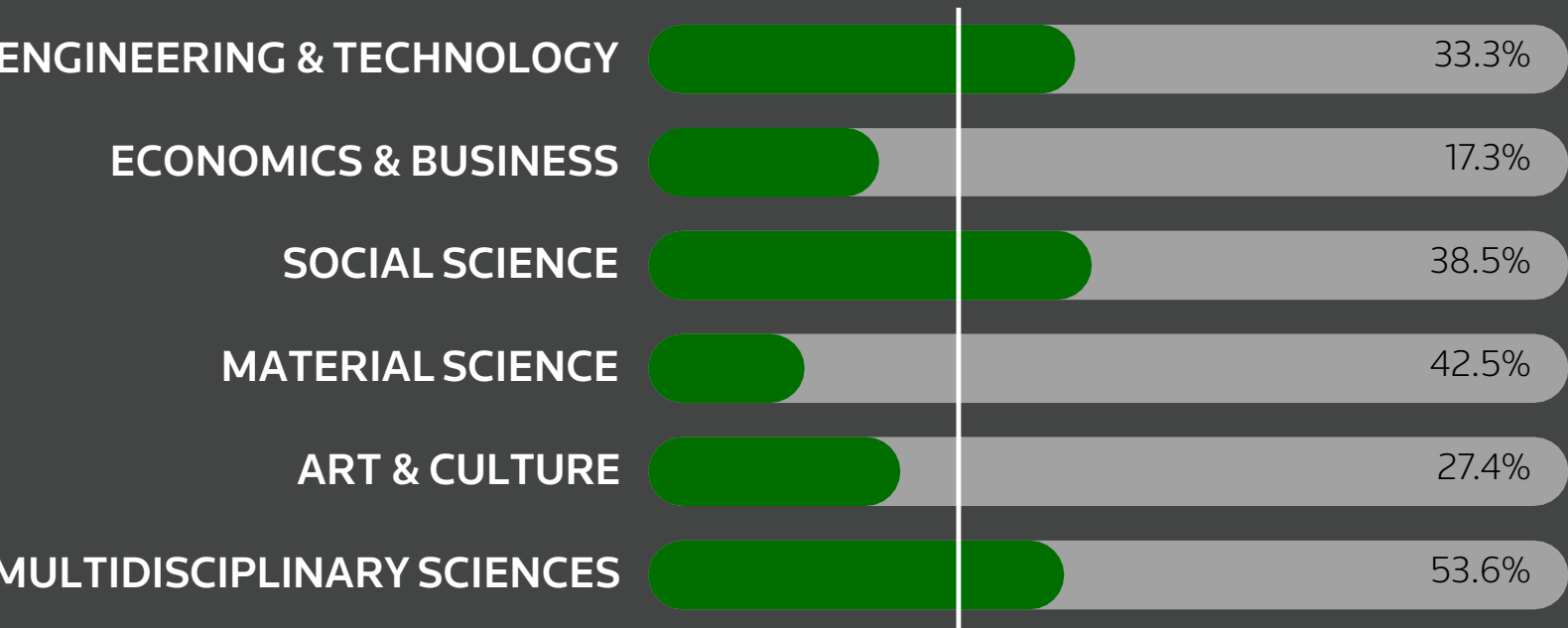


Growth Focus. Engineering & Technology leads growth, but several social science subjects feature. Established domains grow more slowly.

ACCEPTING & REJECTING BEHAVIOUR

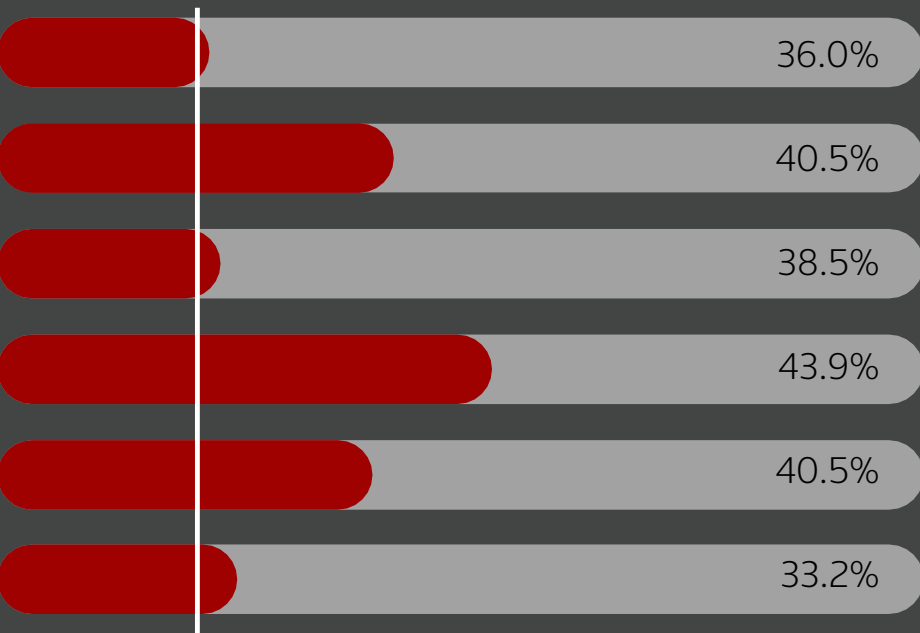
ACCEPT RATE

proportion of decided papers with an accept decision



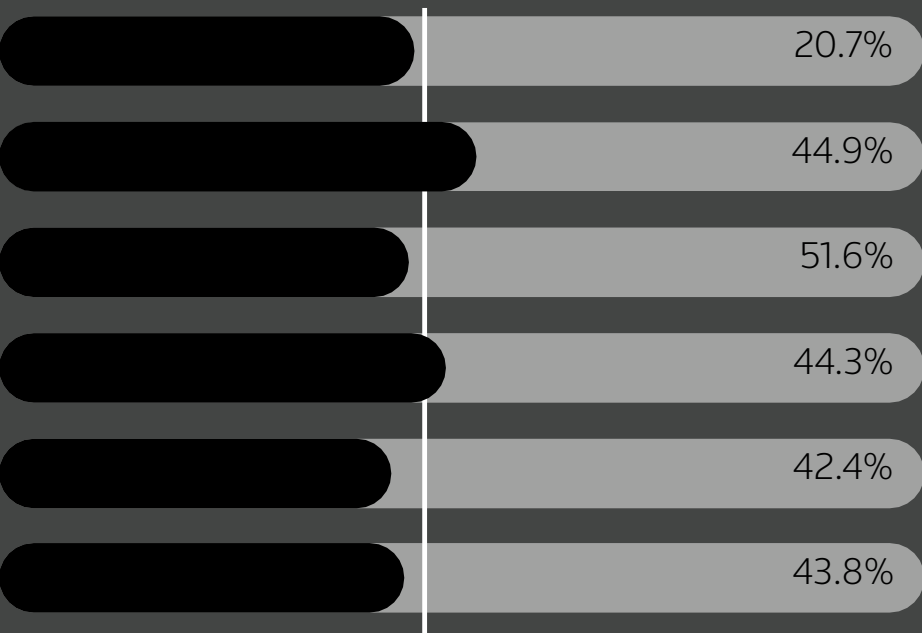
REJECT W/O REVIEW

proportion of papers rejected without reviewers



INVITATION ACCEPT RATE

proportion of invited reviewers who accept



ACCEPTING & REJECTING BEHAVIOUR

ACCEPT RATE

proportion of decided papers with an accept decision

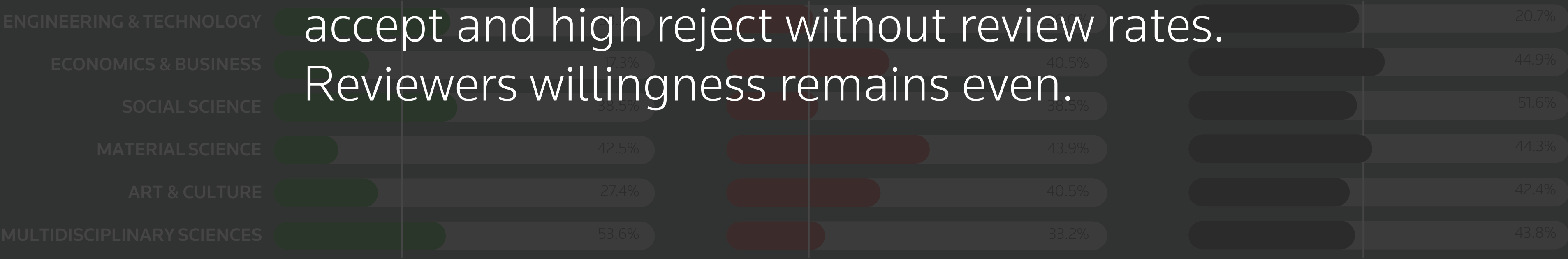
REJECT W/O REVIEW

proportion of papers rejected without reviewers

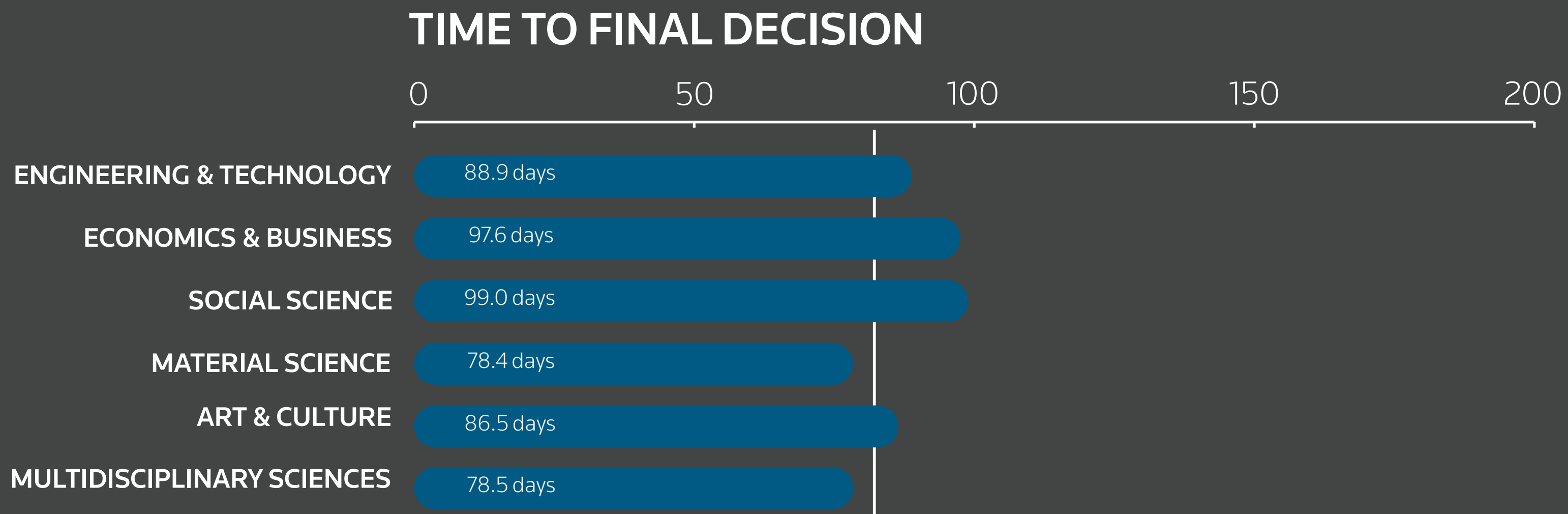
INVITATION ACCEPT RATE

proportion of invited reviewers who accept

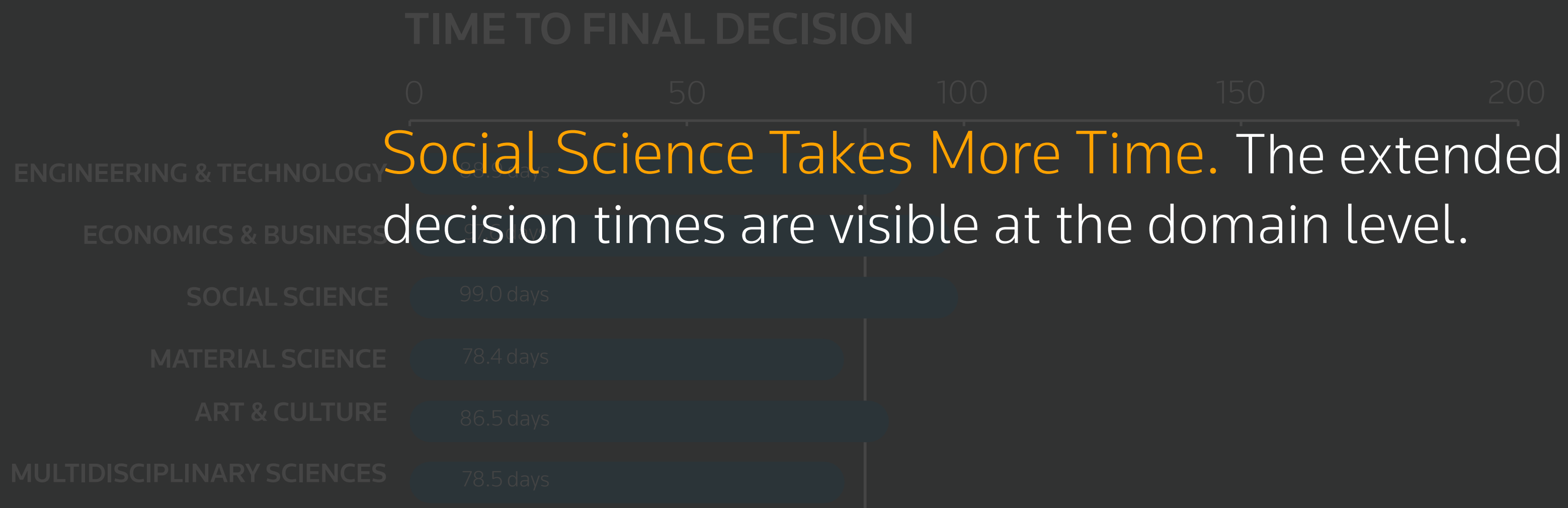
Subjects Aren't Equal. Similar trends of low accept and high reject without review rates. Reviewers willingness remains even.



DECISION TIMES — TIME TO FINAL DECISION

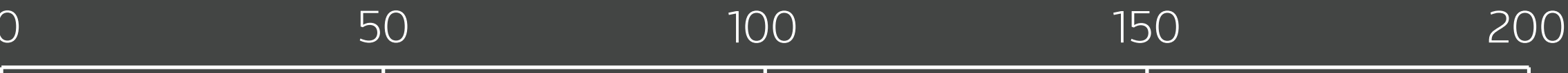


DECISION TIMES — TIME TO FINAL DECISION



DECISION TIMES — TIME TO ACCEPT

TIME TO ACCEPT



ENGINEERING & TECHNOLOGY

156.4 days

ECONOMICS & BUSINESS

267.6 days

SOCIAL SCIENCE

198.8 days

MATERIAL SCIENCE

116.1 days

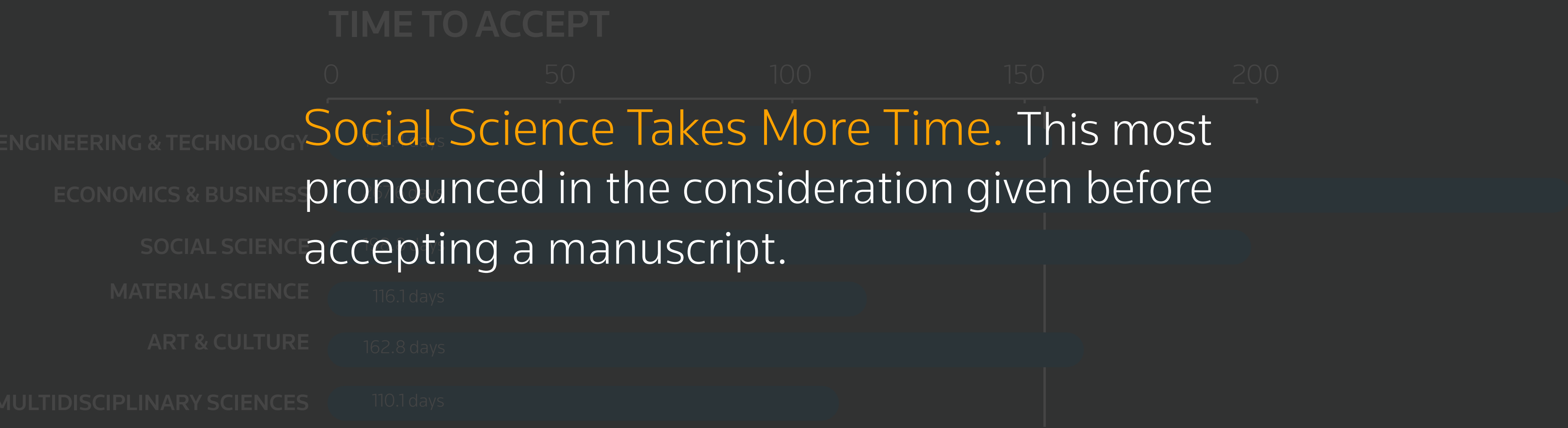
ART & CULTURE

162.8 days

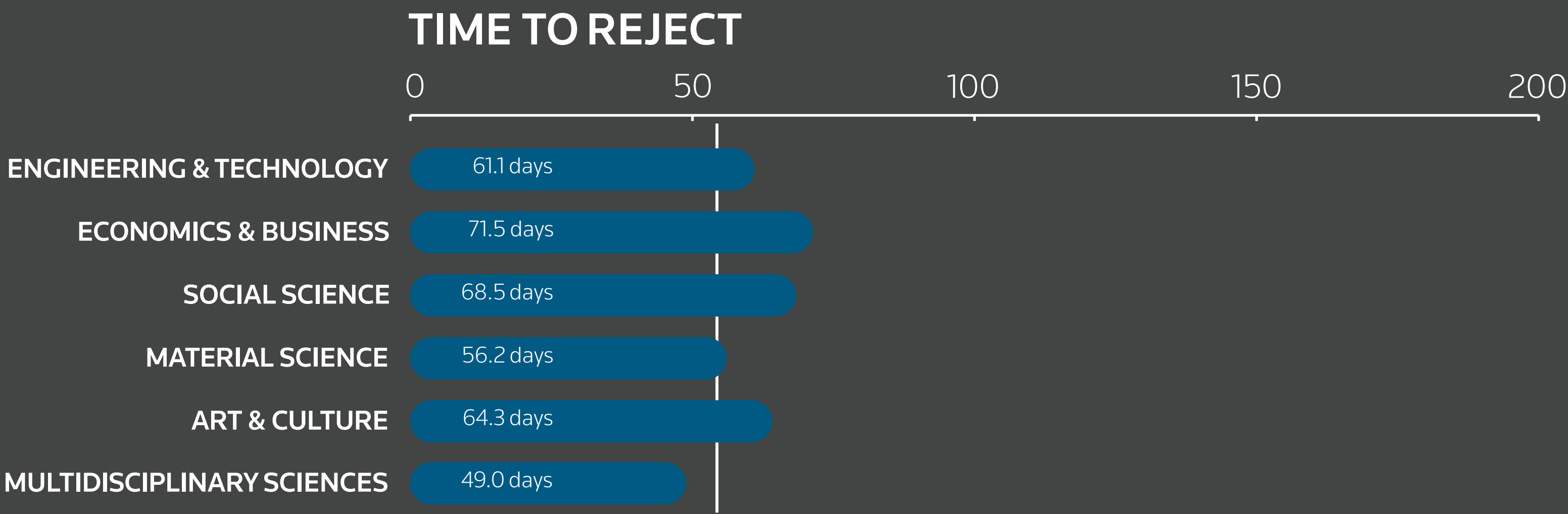
MULTIDISCIPLINARY SCIENCES

110.1 days

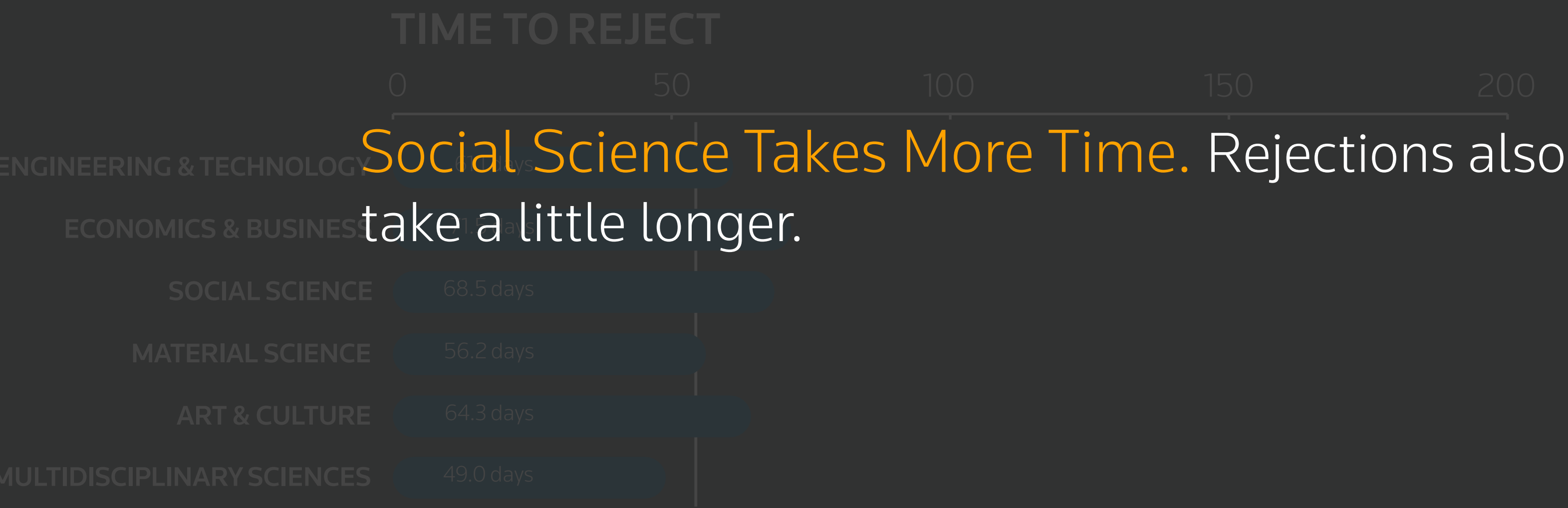
DECISION TIMES — TIME TO ACCEPT



DECISION TIMES — TIME TO REJECT

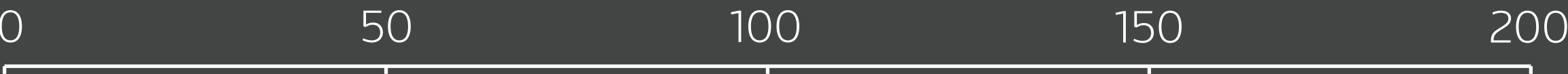


DECISION TIMES — TIME TO REJECT



DECISION TIMES — TIME TO REJECT WITHOUT REVIEW

TIME TO REJECT W/O REVIEW



ENGINEERING & TECHNOLOGY

23.1 days

ECONOMICS & BUSINESS

25.7 days

SOCIAL SCIENCE

25.9 days

MATERIAL SCIENCE

23.0 days

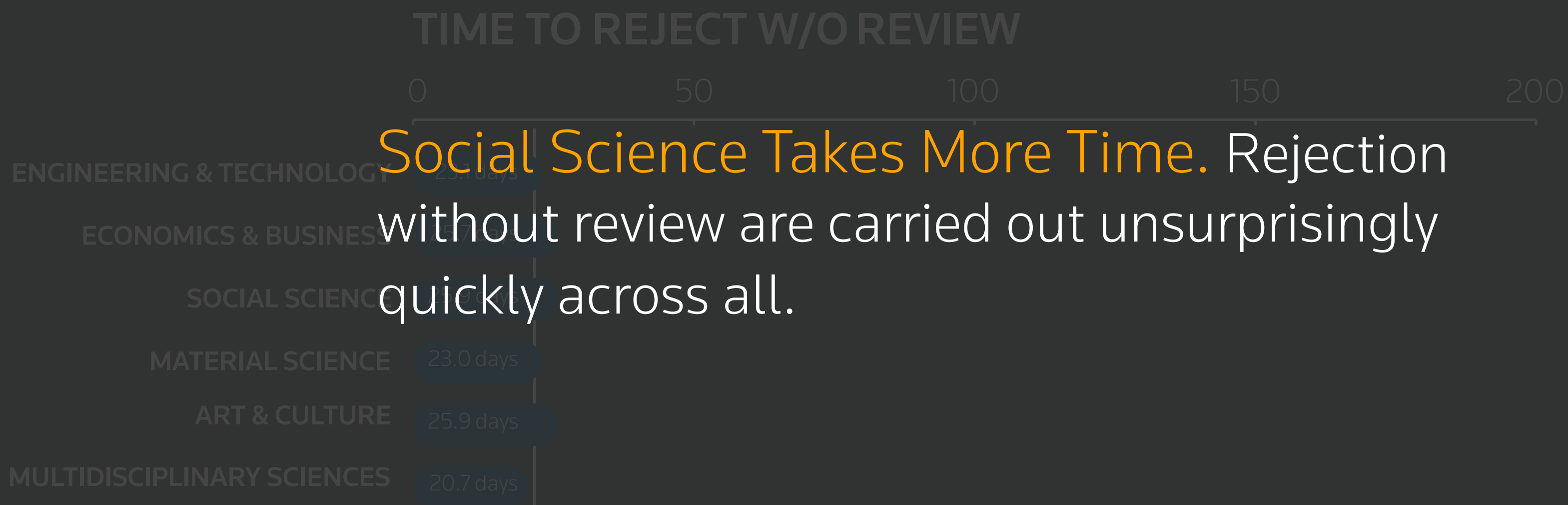
ART & CULTURE

25.9 days

MULTIDISCIPLINARY SCIENCES

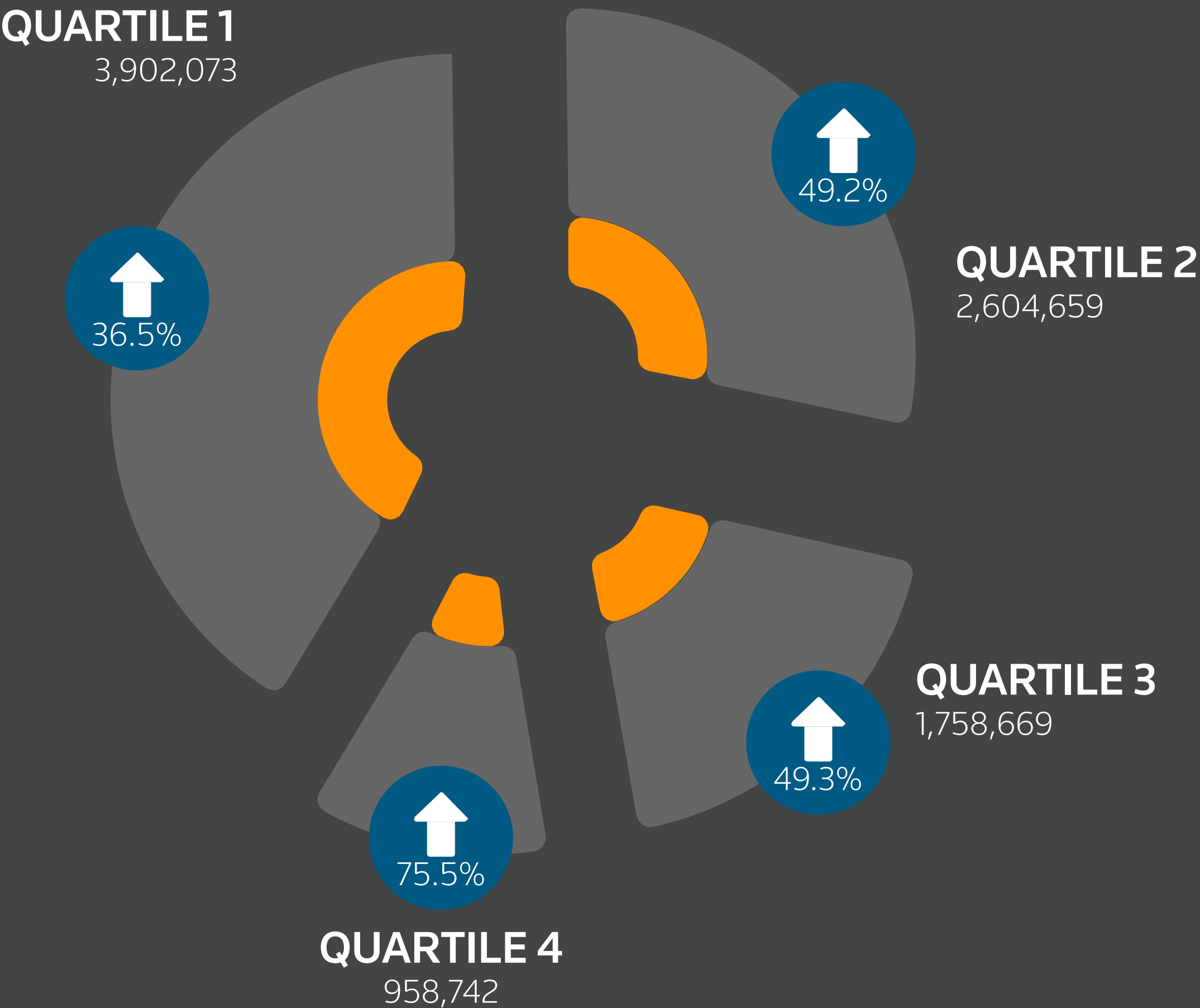
20.7 days

DECISION TIMES — TIME TO REJECT WITHOUT REVIEW

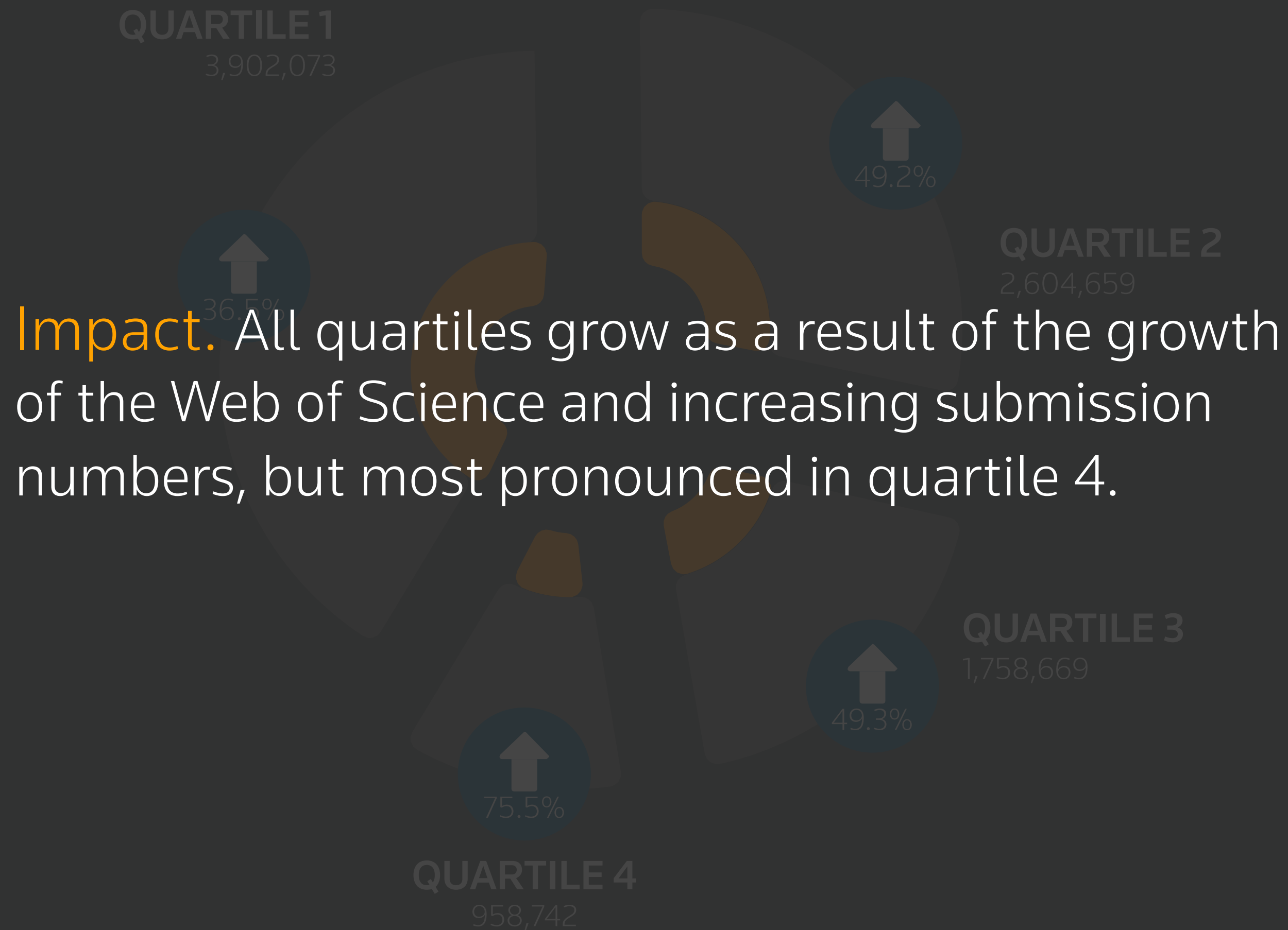


Making an Impact. Do high impact journals
do things differently?

SUBMISSIONS BY QUARTILE



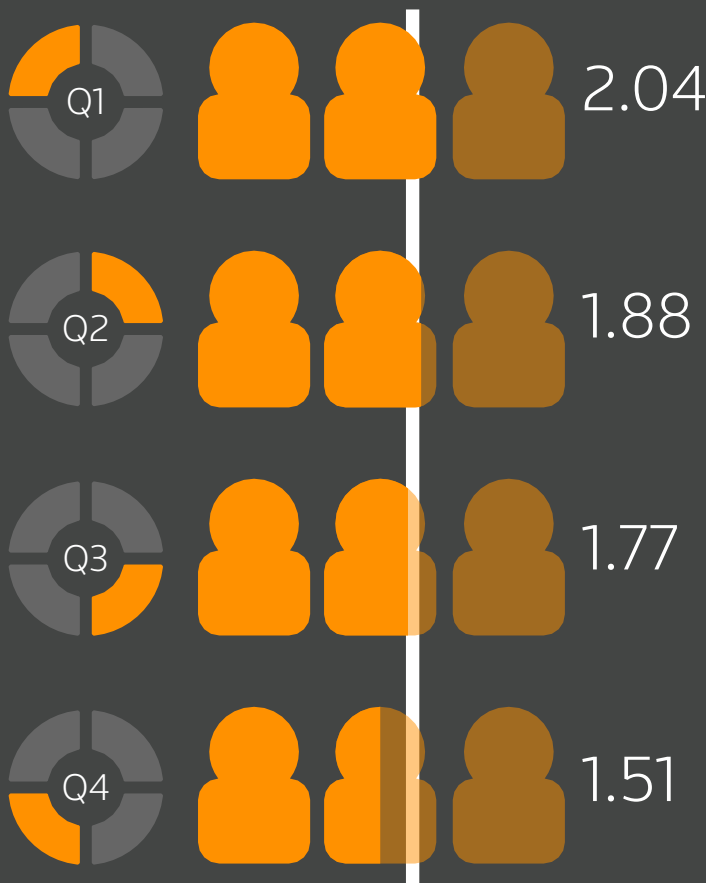
SUBMISSIONS BY QUARTILE



COMPARING REVIEWER & REVISION BEHAVIOUR BY QUARTILE

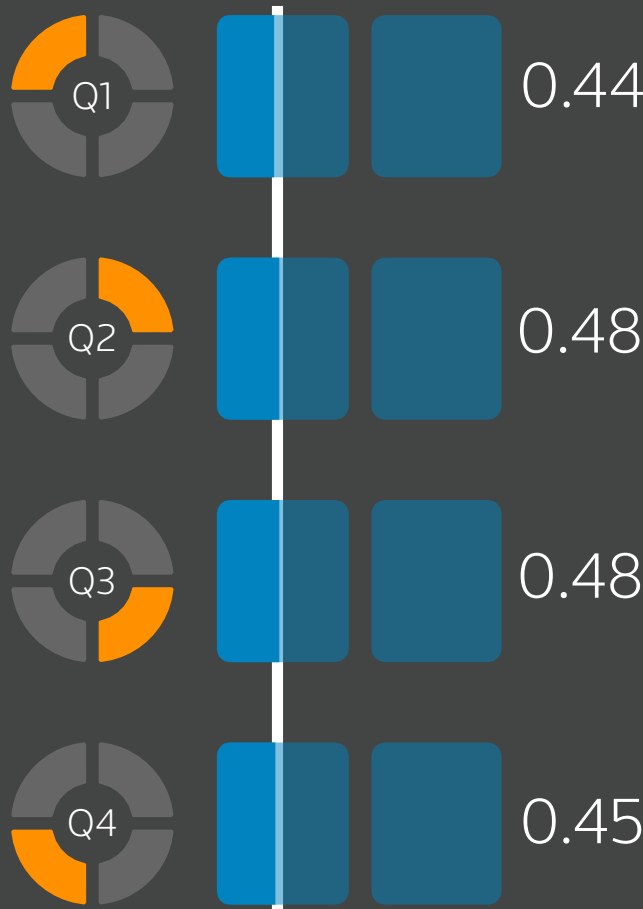
COMPLETED REVIEWS PER DECISION

upper quartile journals use more reviews to make a decision



NUMBER OF REVISIONS

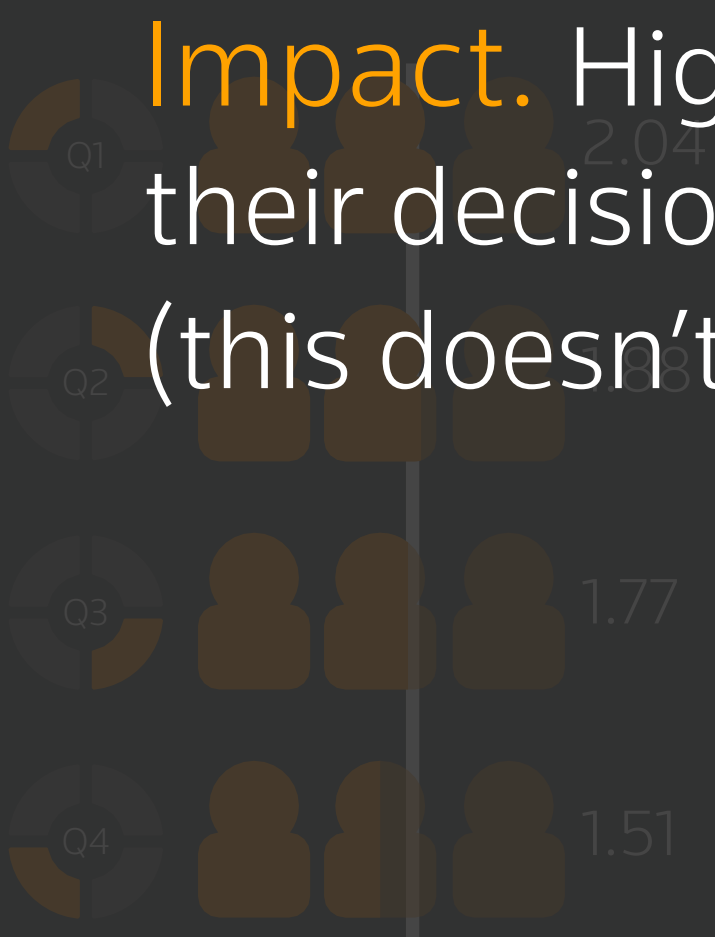
does not vary between quartiles



COMPARING REVIEWER & REVISION BEHAVIOUR BY QUARTILE

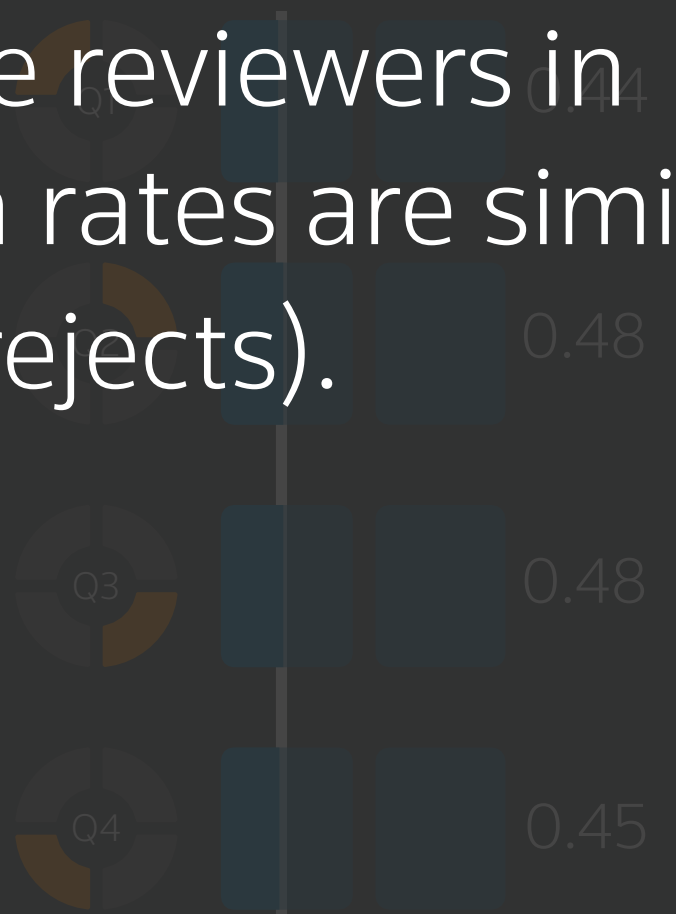
COMPLETED REVIEWS PER DECISION

upper quartile journals use more reviews to make a decision



NUMBER OF REVISIONS

does not vary between quartiles

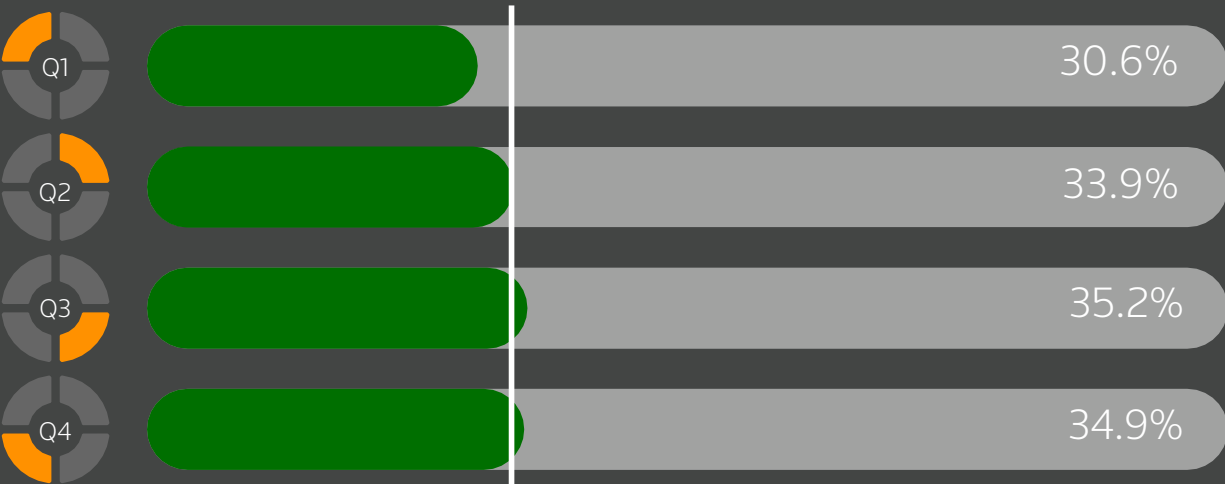


Impact. Higher quartiles use more reviewers in their decision process, but revision rates are similar (this doesn't discount immediate rejects).

ACCEPTING & REJECTING BEHAVIOUR

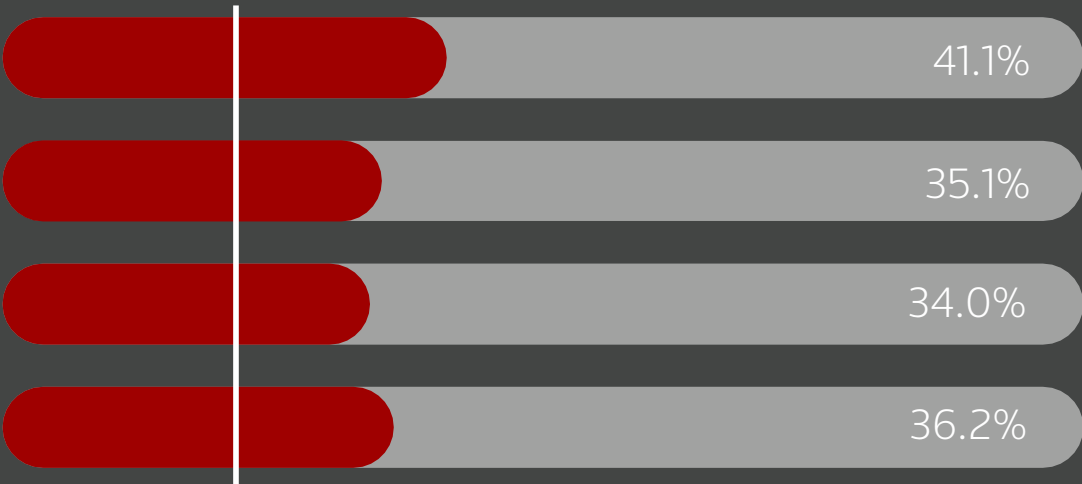
ACCEPT RATE

proportion of decided papers with an accept decision



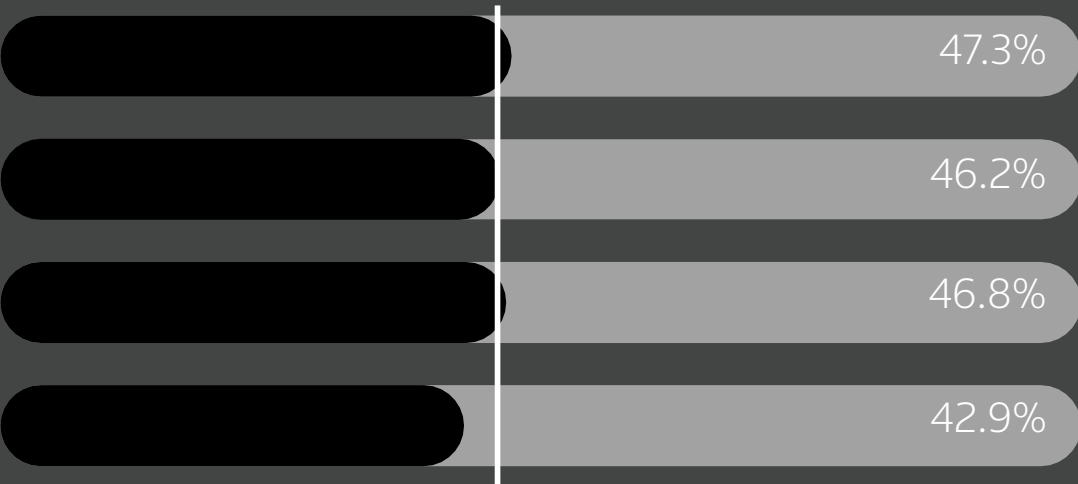
REJECT W/O REVIEW

proportion of papers rejected without reviewers



INVITATION ACCEPT RATE

proportion of invited reviewers who accept



ACCEPTING & REJECTING BEHAVIOUR

ACCEPT RATE

proportion of decided papers
with an accept decision

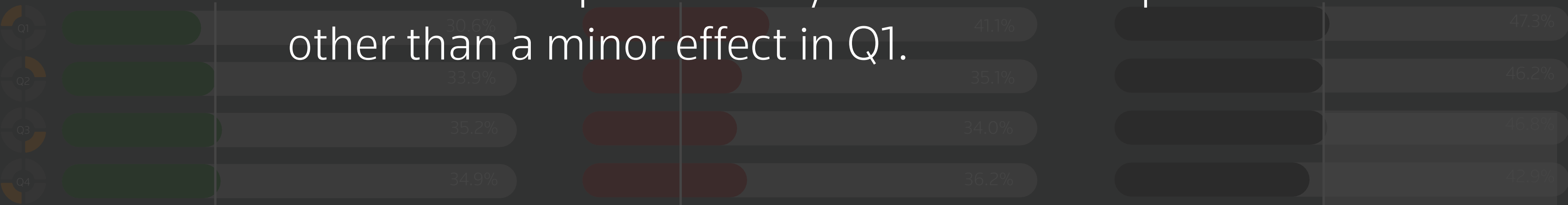
REJECT W/O REVIEW

proportion of papers rejected
without review

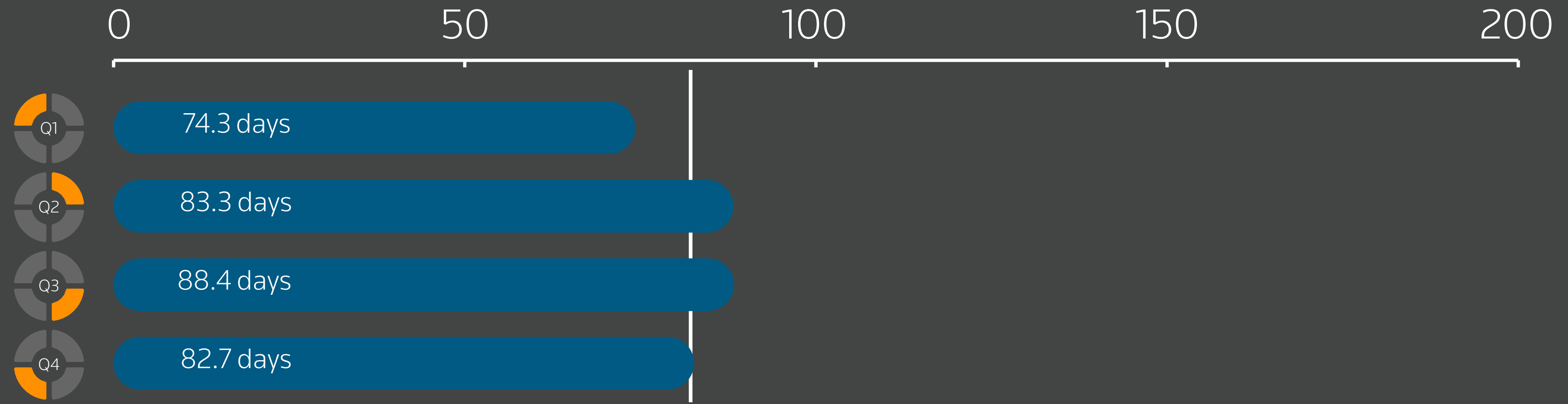
INVITATION ACCEPT RATE

proportion of invited reviewers who
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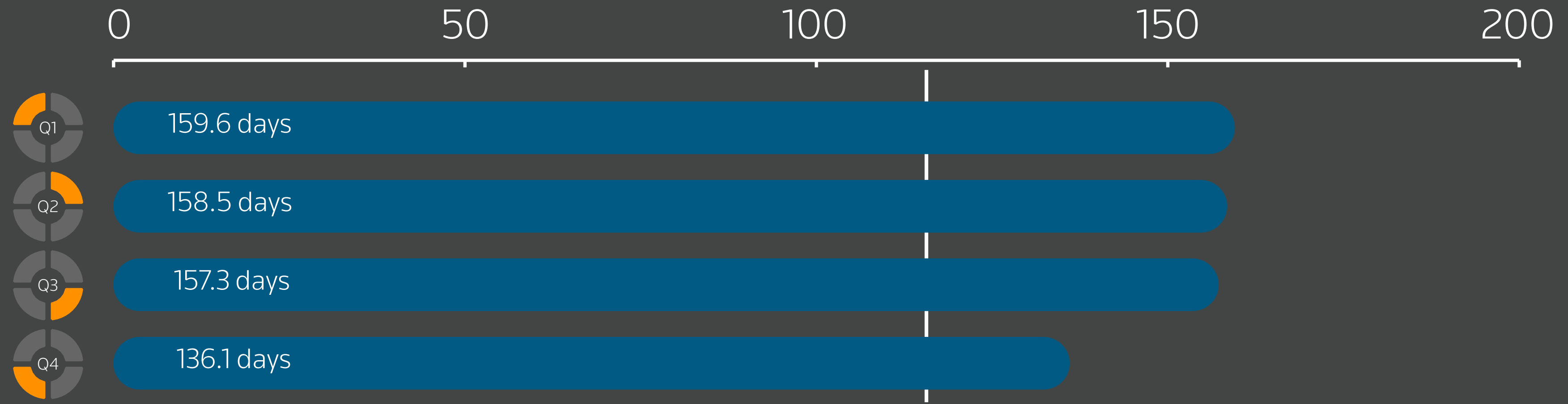
Impact. Accept, Reject without Review, and Reviewer Accept rates vary little between quartiles other than a minor effect in Q1.



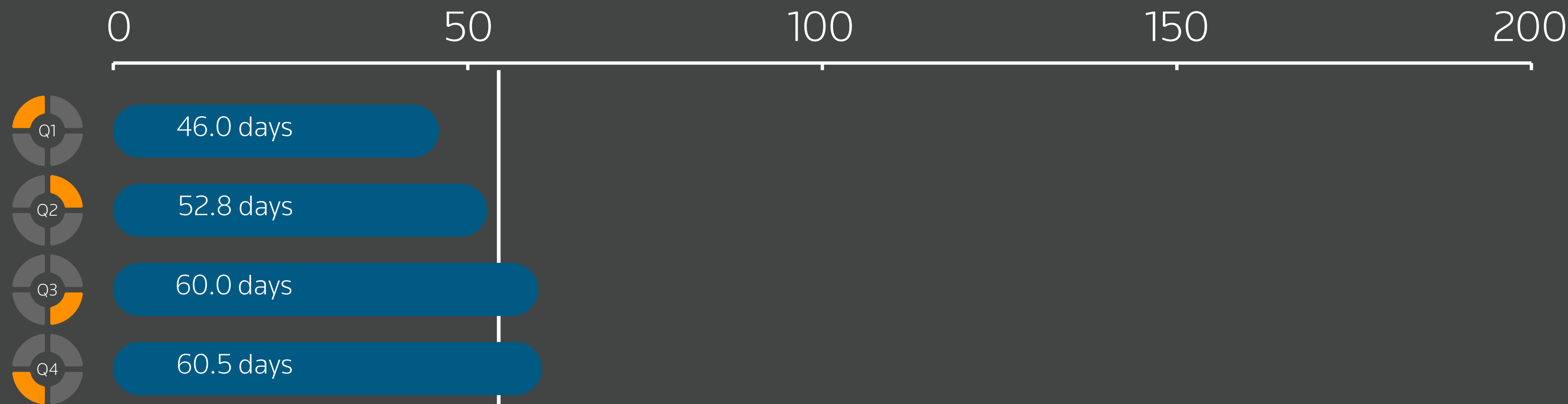
DECISION TIMES — TIME TO FINAL DECISION



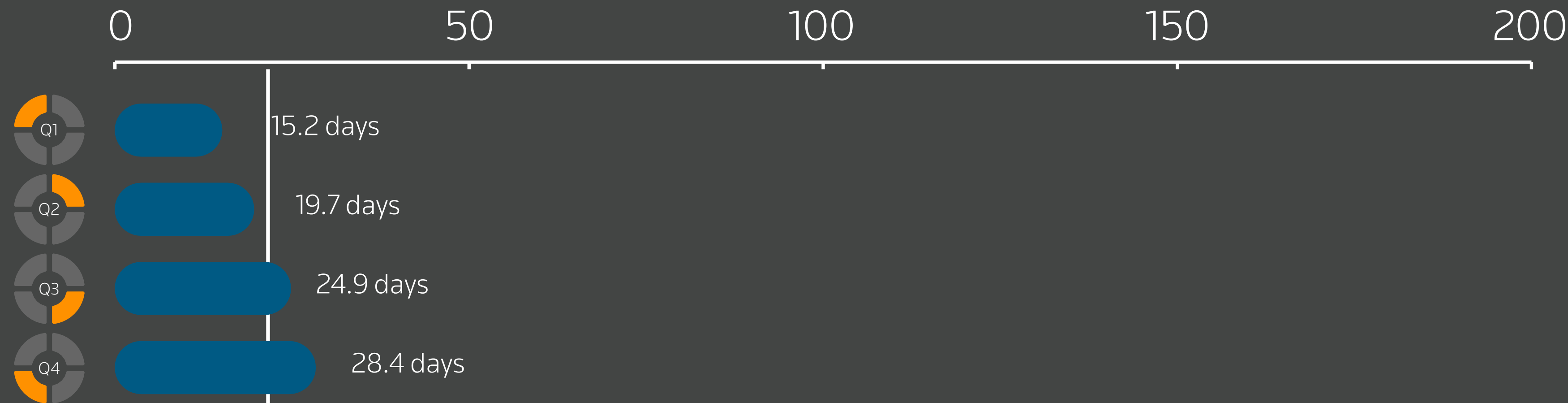
DECISION TIMES — TIMES TO ACCEPT



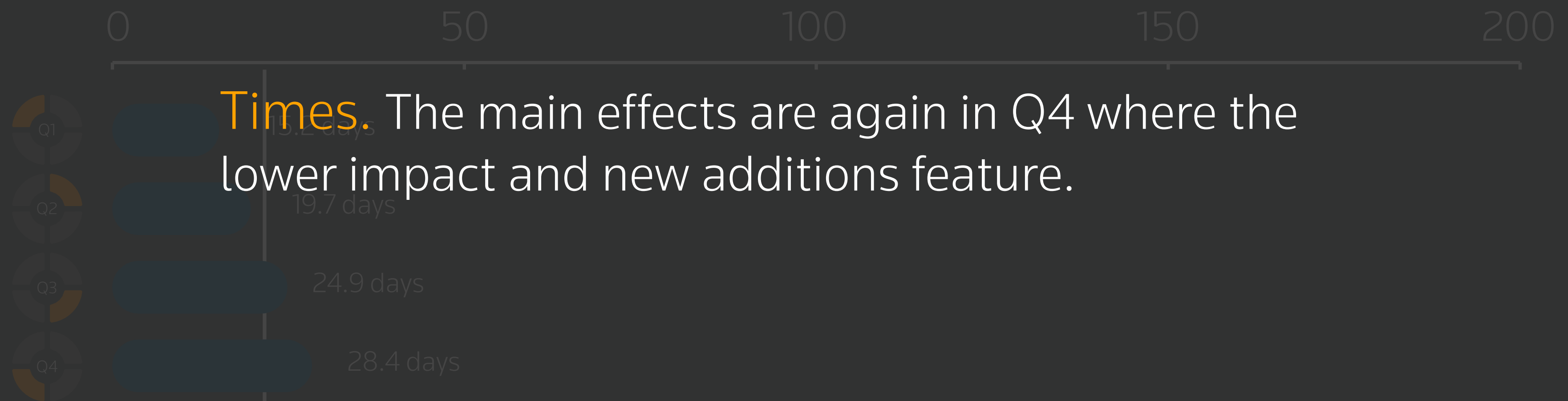
DECISION TIMES — TIME TO REJECT



DECISION TIMES — TIME TO REJECT WITHOUT REVIEW



DECISION TIMES — TIME TO REJECT WITHOUT REVIEW



Times. The main effects are again in Q4 where the lower impact and new additions feature.

Next Steps...

- ▶ Refine data — fractional county for titles in multiple categories, remove manuscripts rejected without review
 - ▶ Additional datasets — e.g. subject vs. country / reviewer origins
 - ▶ Additional overlays — e.g. open access, funding agencies
-

WHITE PAPER



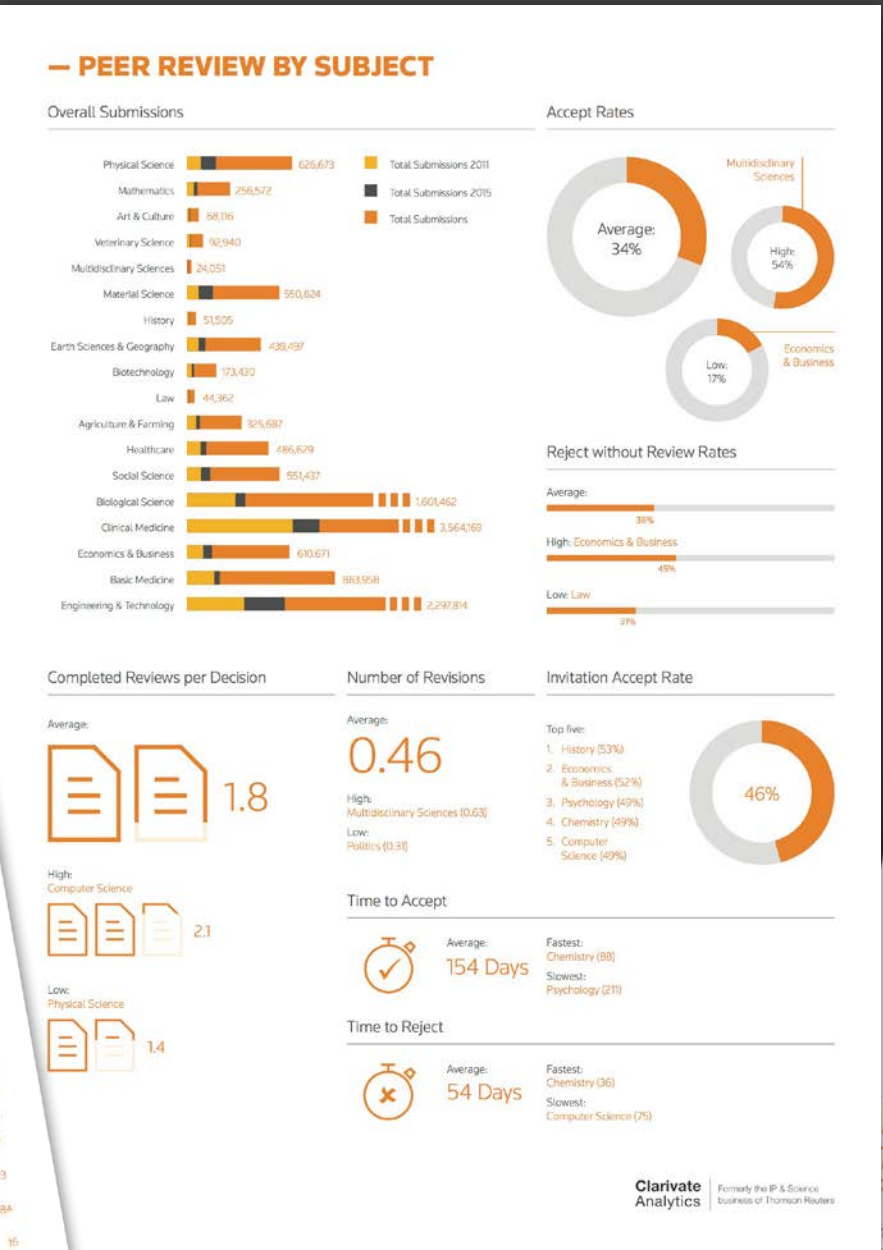
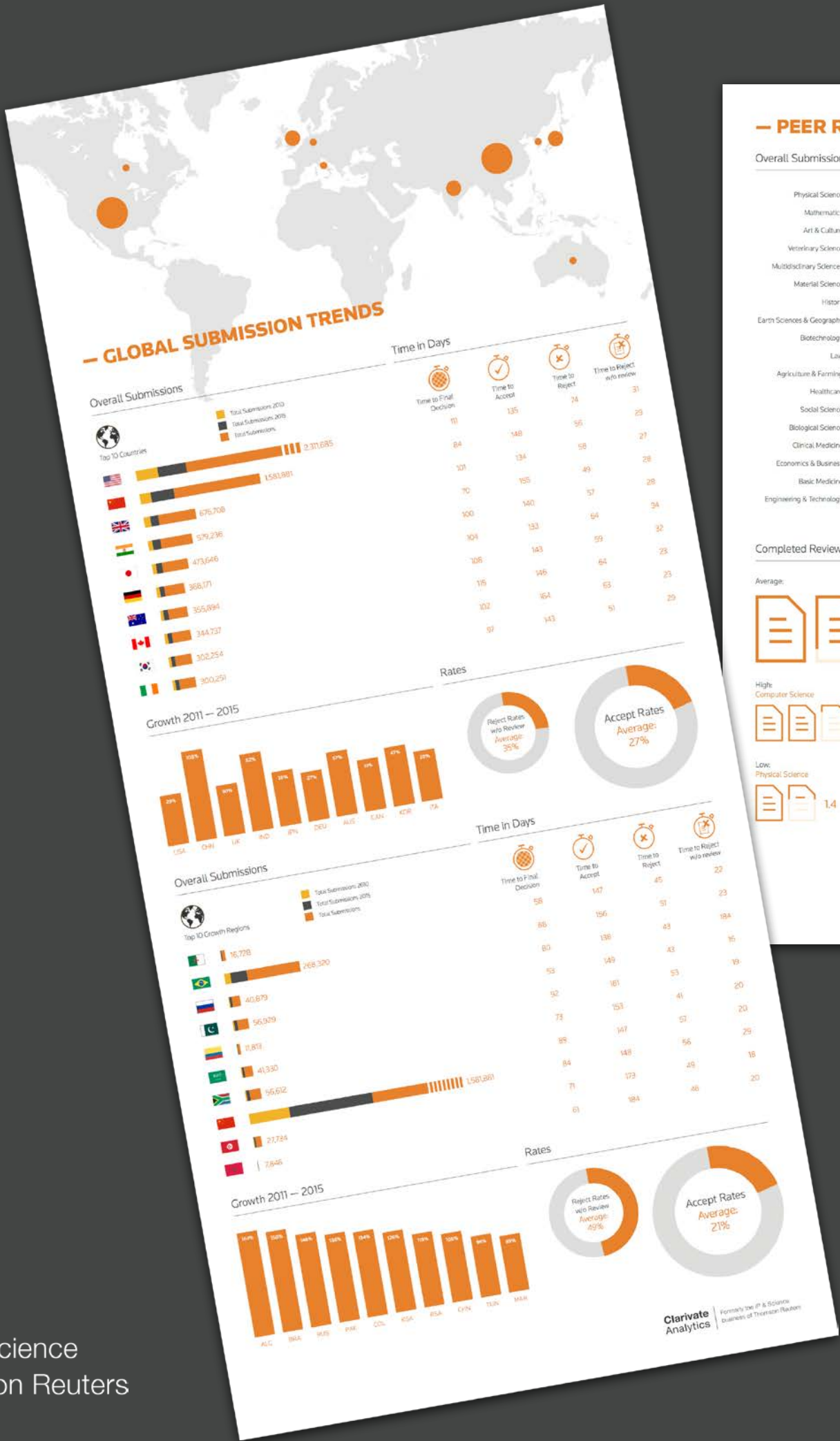
REUTERS/ Jorge Silva

GLOBAL PUBLISHING: CHANGES IN SUBMISSION TRENDS AND THE IMPACT ON SCHOLARLY PUBLISHERS

APRIL 2012

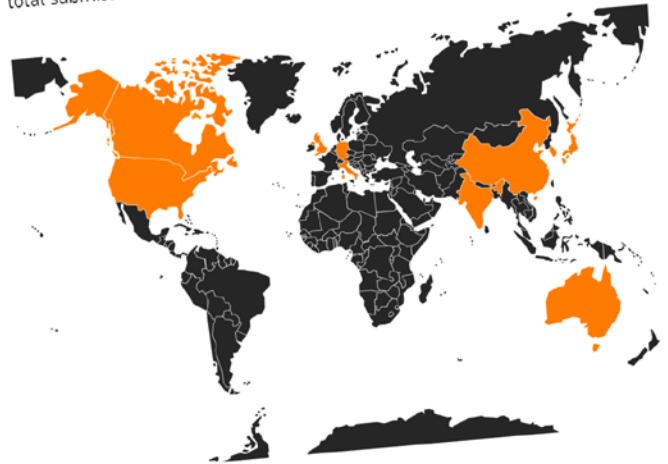


INFOGRAPHIC OVERVIEWS

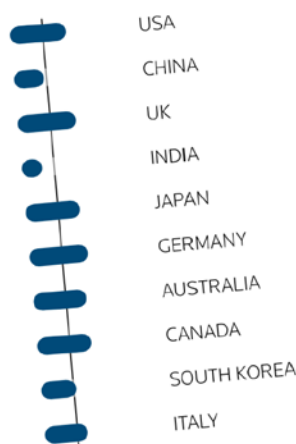


MORE DETAILED ANALYSES

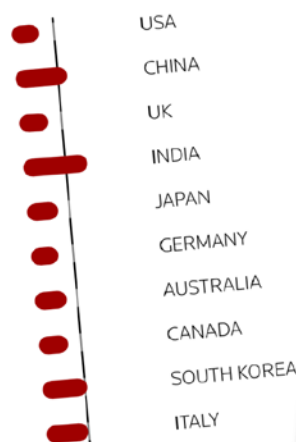
TOP 10 COUNTRIES BY SUBMISSIONS
total submissions 2011-2015



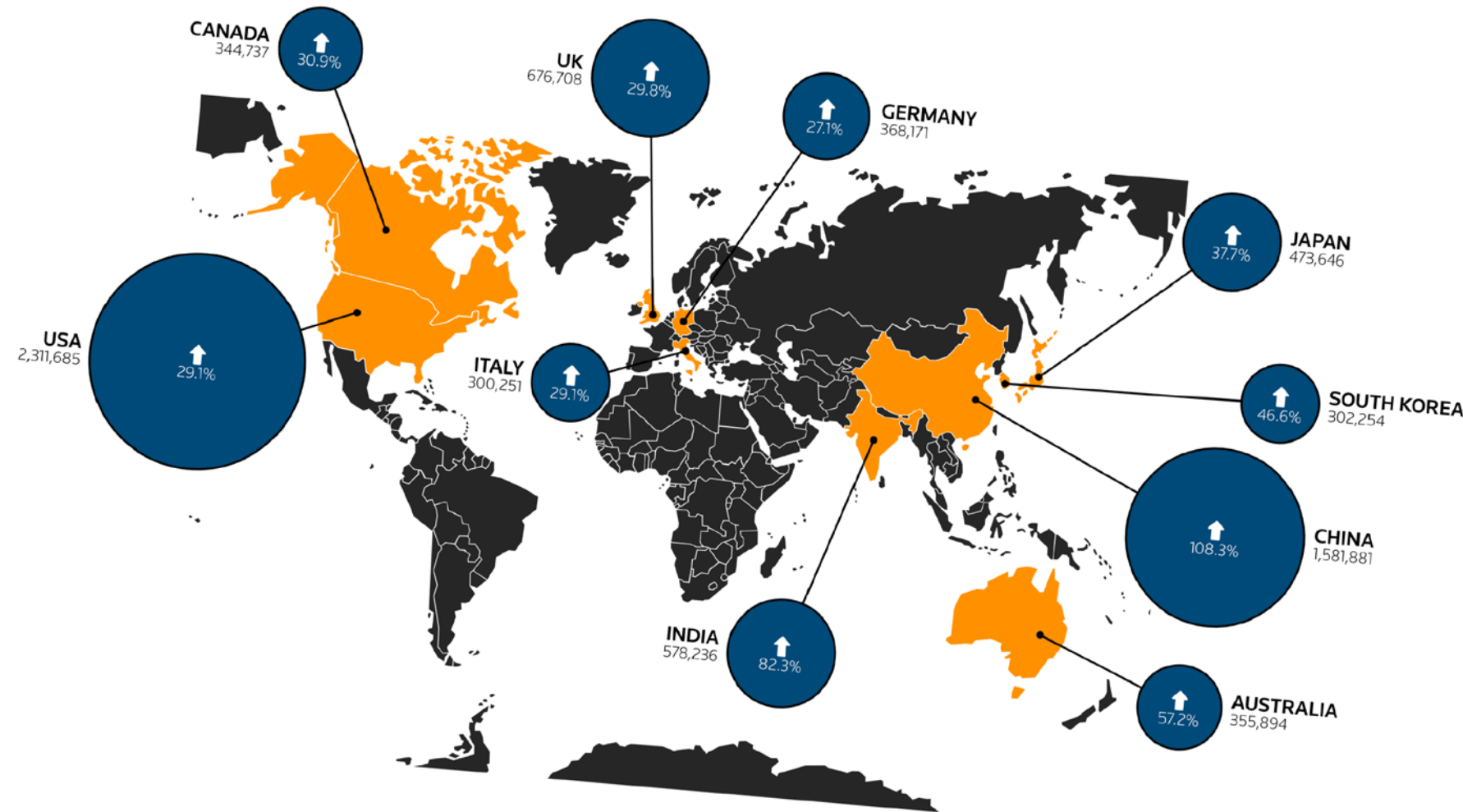
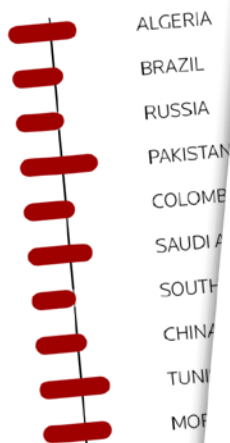
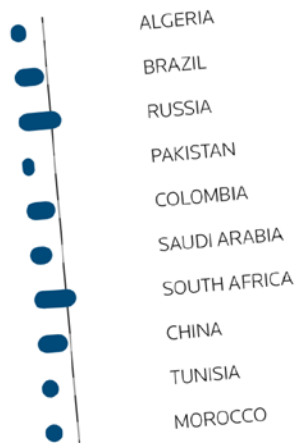
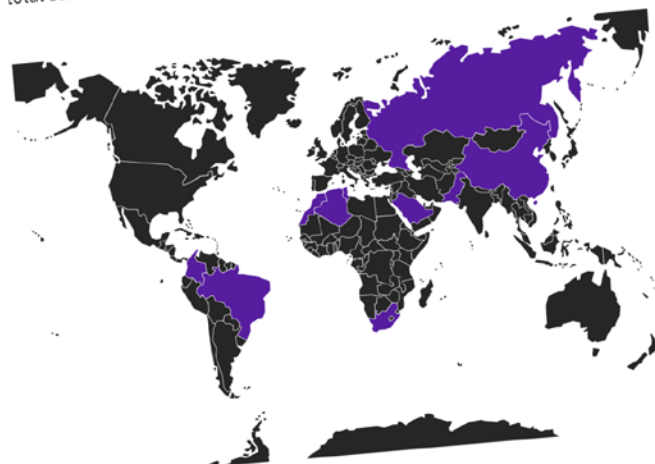
ACCEPT RATE
proportion of decided papers
with an accept decision



REJECT W/O REVIEW RATE
proportion of papers rejected without
reviewers



TOP 10 COUNTRIES BY GROWTH
total submissions 2011-2015 for countries with >1000 submissions in 2011



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