

Unit of Assessment X:
NAME OF UNIT

REF

2014

A review of REF 2014 statistics and impact case studies for
Unit of Assessment X: Name of Unit

SAMPLE REPORT

Unit of Assessment X:

NAME OF UNIT



No. of Submitting Institutions



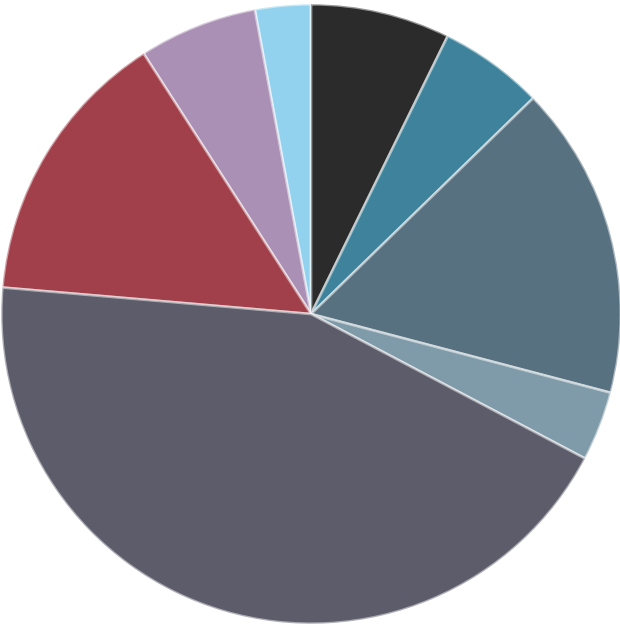
No. of Category A FTE Staff Submitted



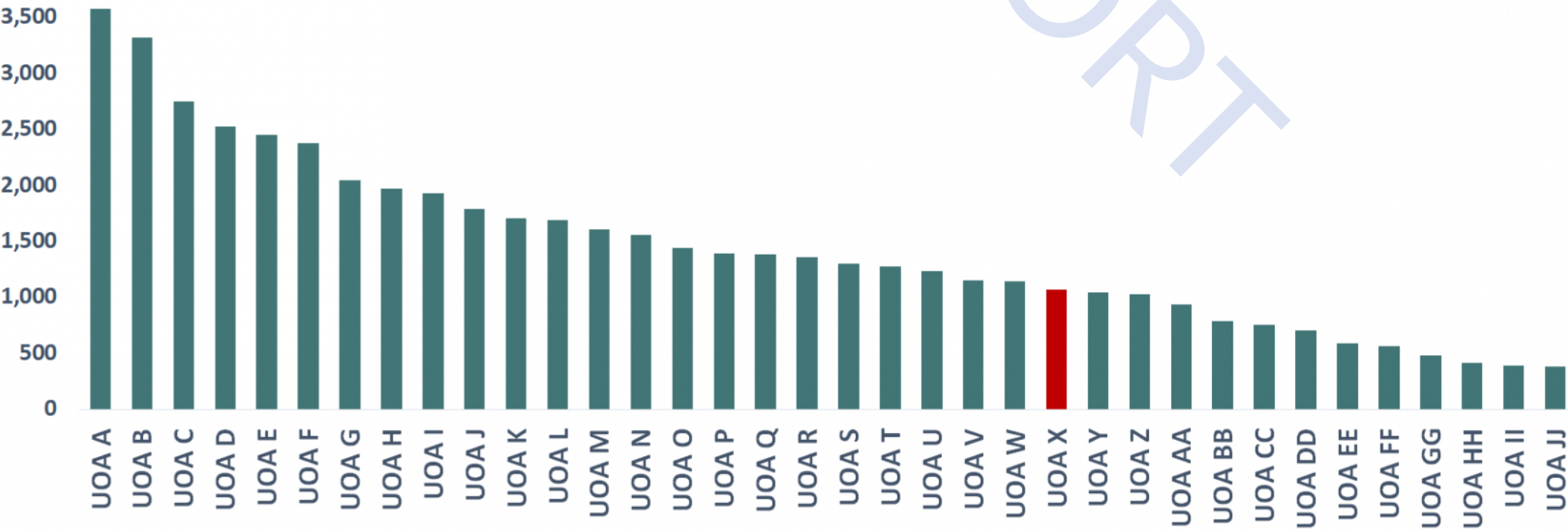
No. of Outputs Submitted

No. of Impact Case Studies by Impact Type in UOA X

Political	20	Legal	15
Health	45	Cultural	10
Technological	120	Societal	40
Economic	17	Environmental	8



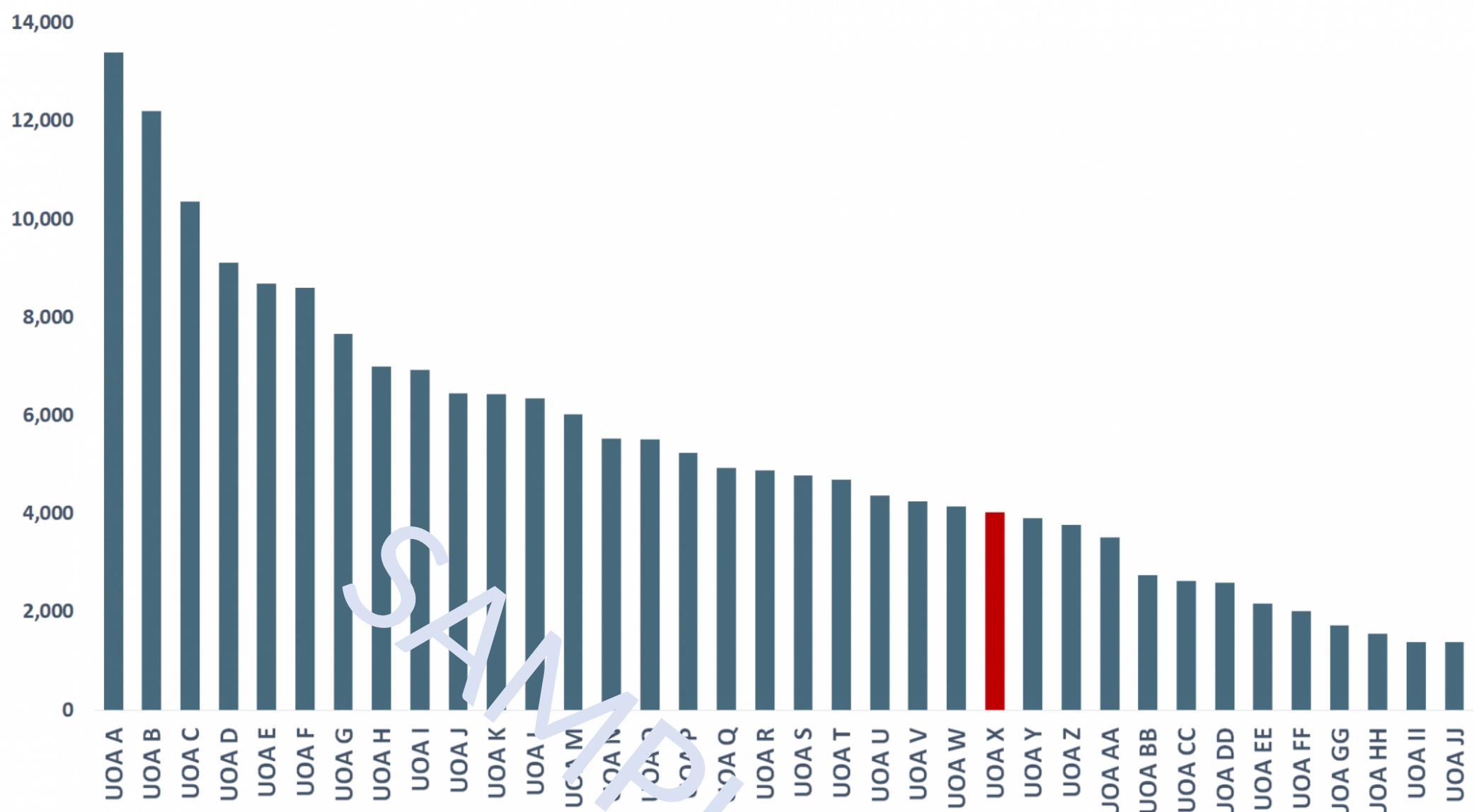
Total No. of Category A FTE staff submitted by Unit of Assessment*



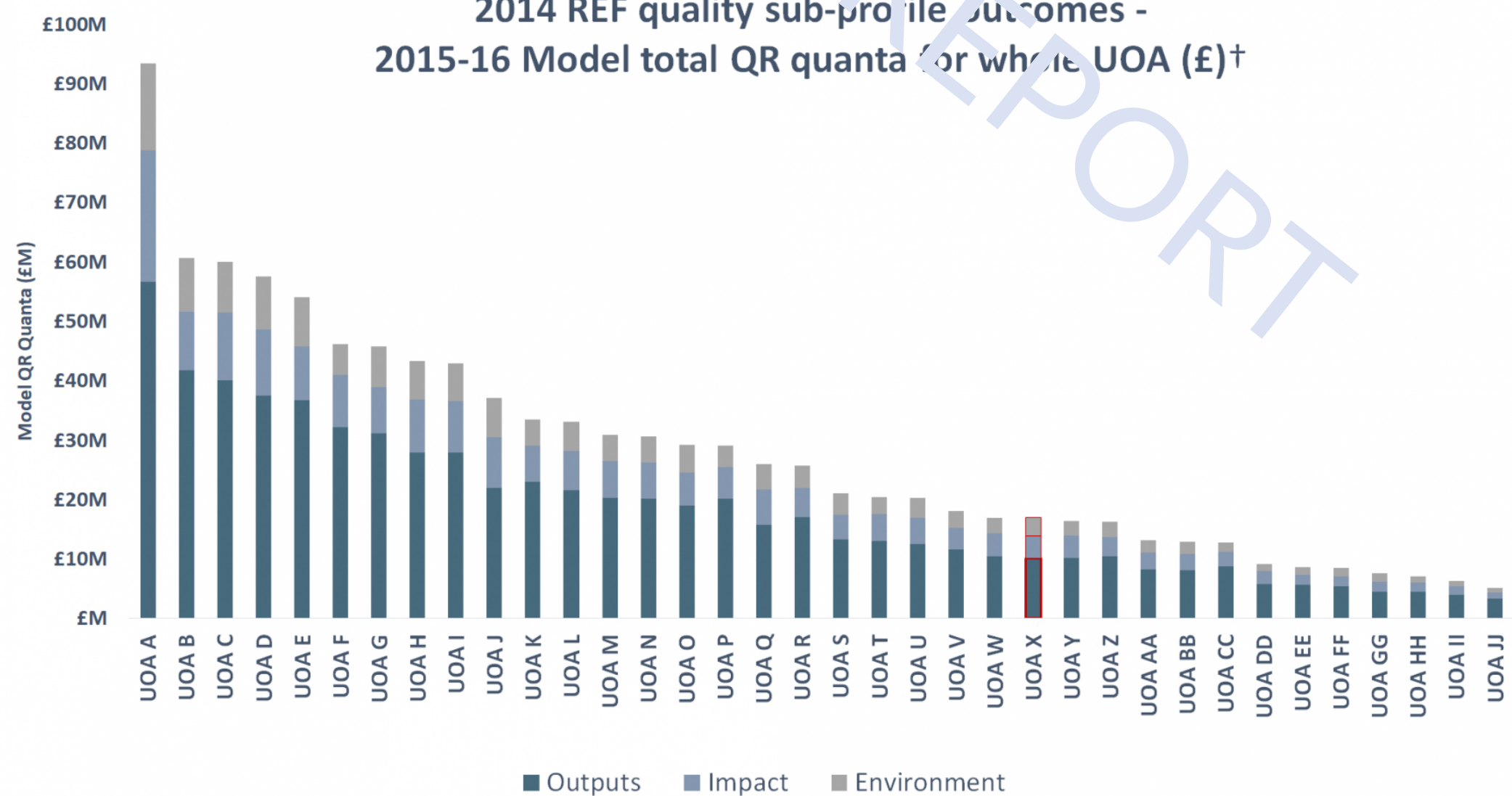
No. of Outputs Submitted by UOA

QR Quanta by UOA

Total No. of Outputs Submitted by Unit of Assessment*



2014 REF quality sub-profile outcomes -
2015-16 Model total QR quanta for whole UOA (£)†



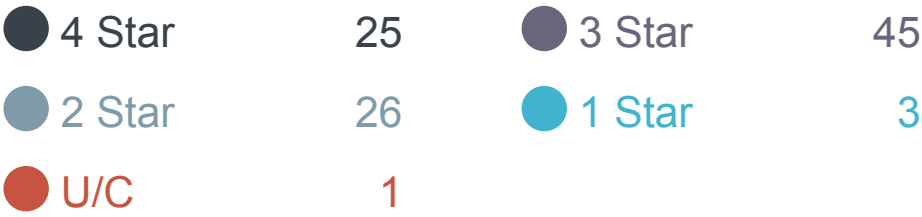
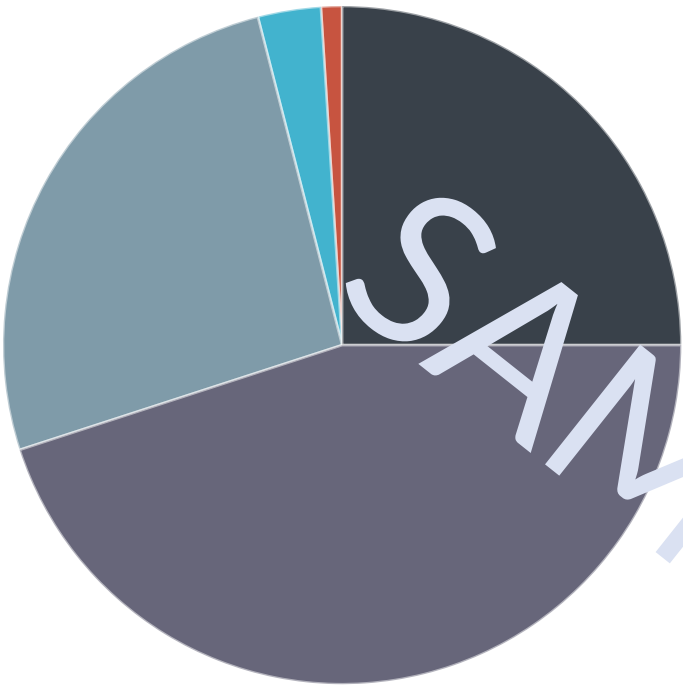
Star Classification UOA X

Average Overall Quality Profile UOA X All Submissions**

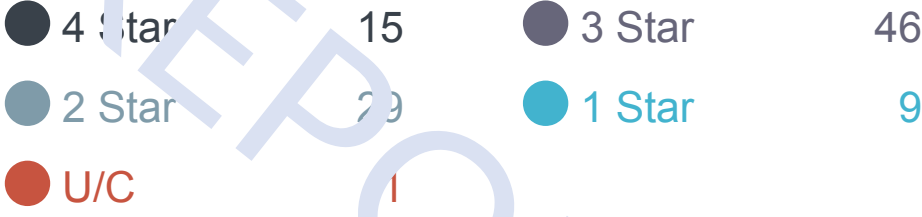
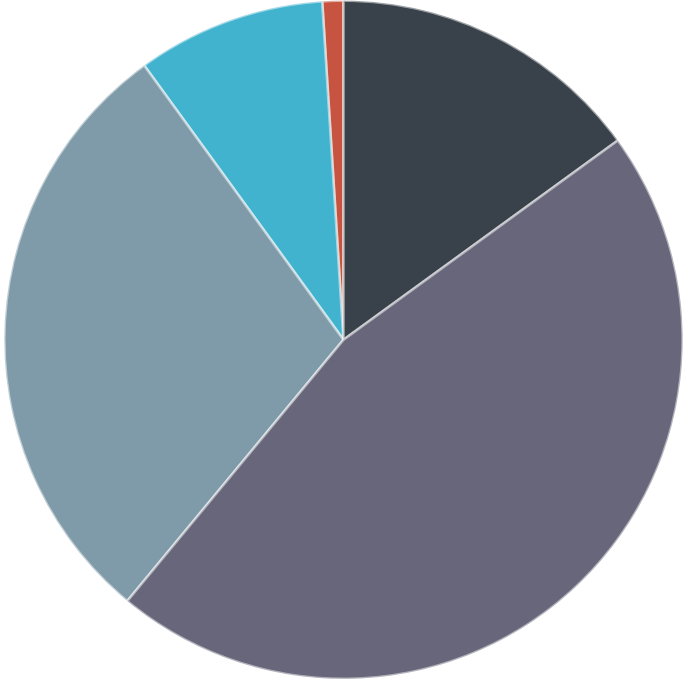
	4*	3*	2*	1*	Unclassified
Overall	25	45	26	3	1
Outputs	22.1	47.1	25.8	4.8	0.2
Impact	36.9	38	15	7.8	2.3
Environment	27.4	42.5	23.5	6.5	0.1

OVERALL QUALITY PROFILE UOA X

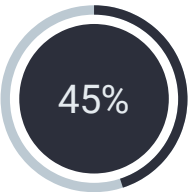
Average Overall Quality Profile
UOA X All Submissions**



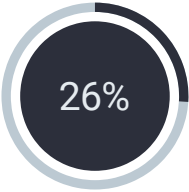
Overall Quality Profile UOA X
University of Name



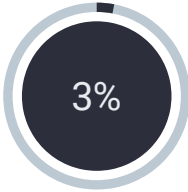
4* Overall
Quality
Profile



3* Overall
Quality
Profile



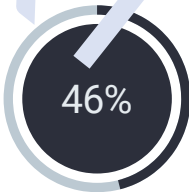
2* Overall
Quality
Profile



1* Overall
Quality
Profile



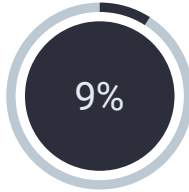
4* Overall
Quality
Profile



3* Overall
Quality
Profile



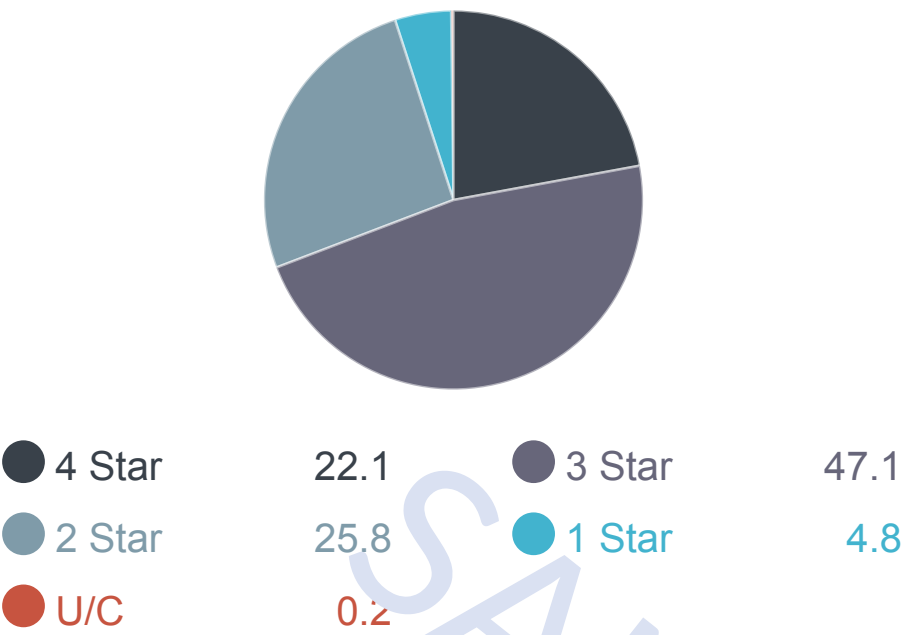
2* Overall
Quality
Profile



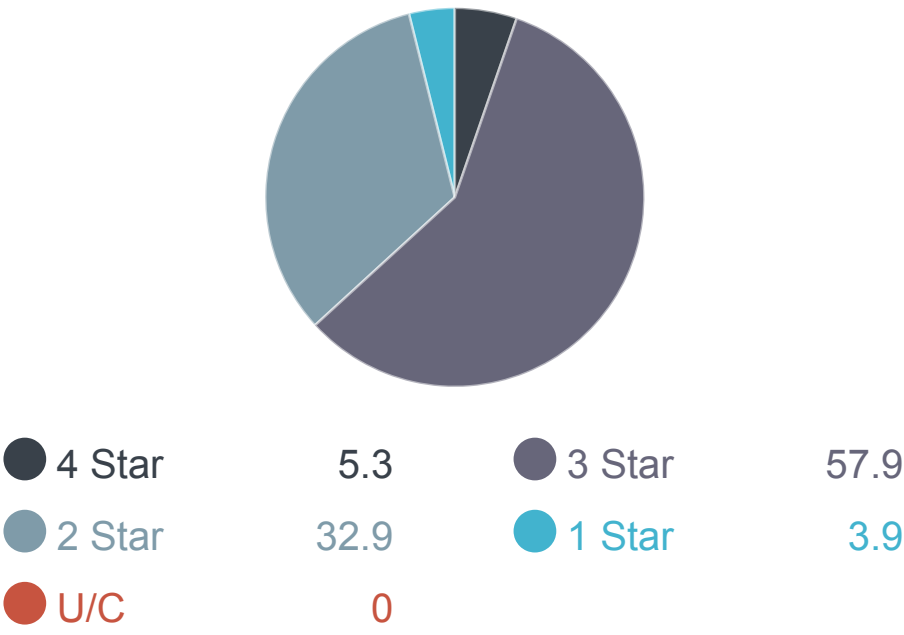
1* Overall
Quality
Profile

* Star Classification Quality Profile UOA X by Outputs/Impact/Environment

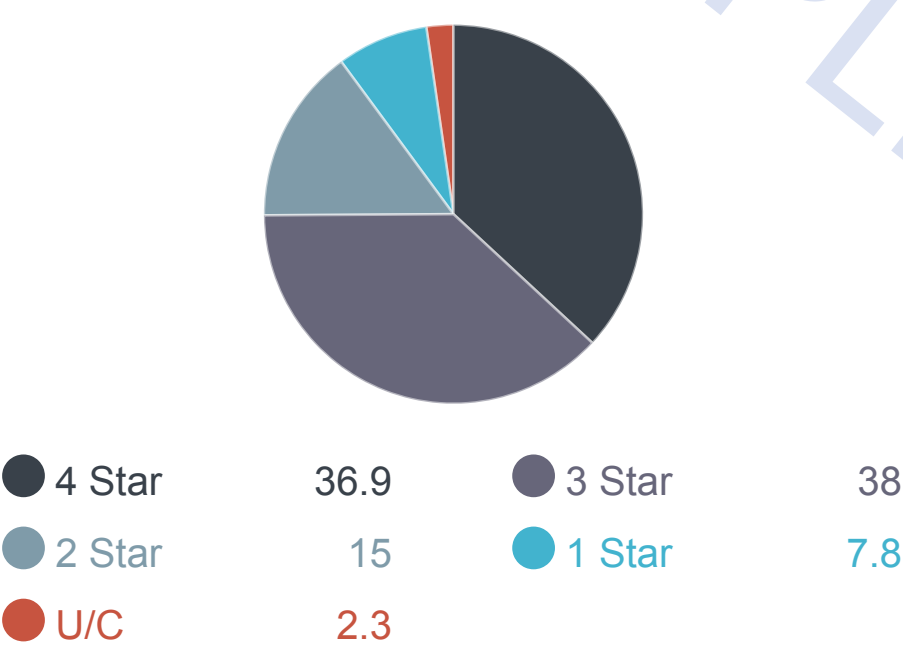
Average Outputs Profile UOA X
All Submissions



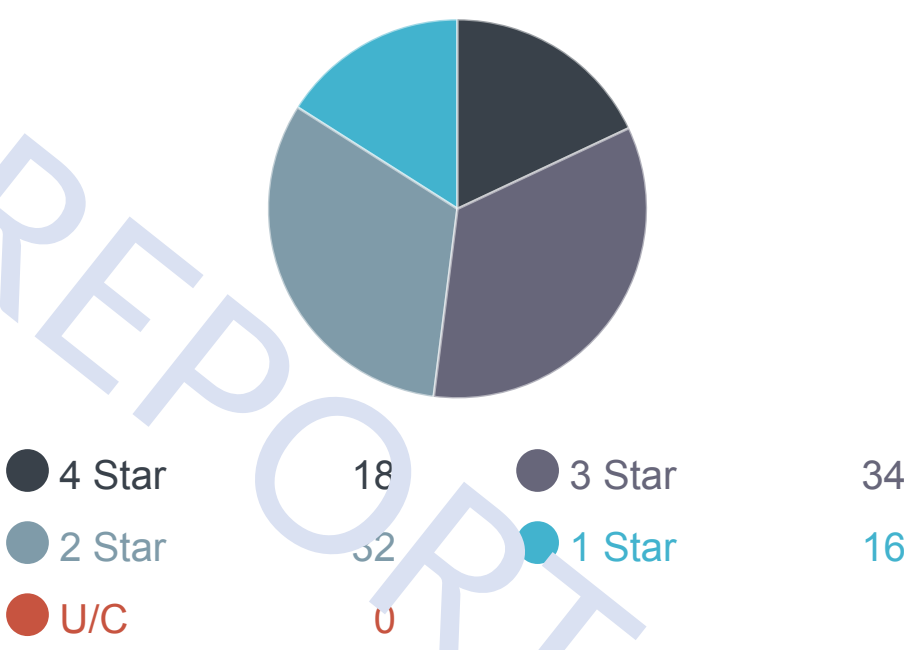
Outputs Profile UOA X
University of Name



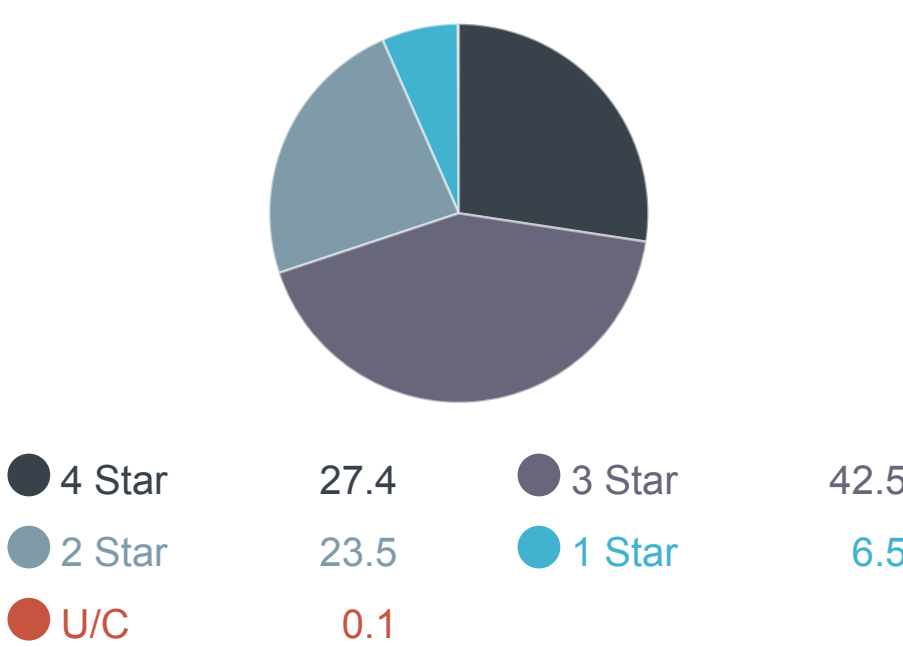
Average Impact Profile UOA X
All Submissions



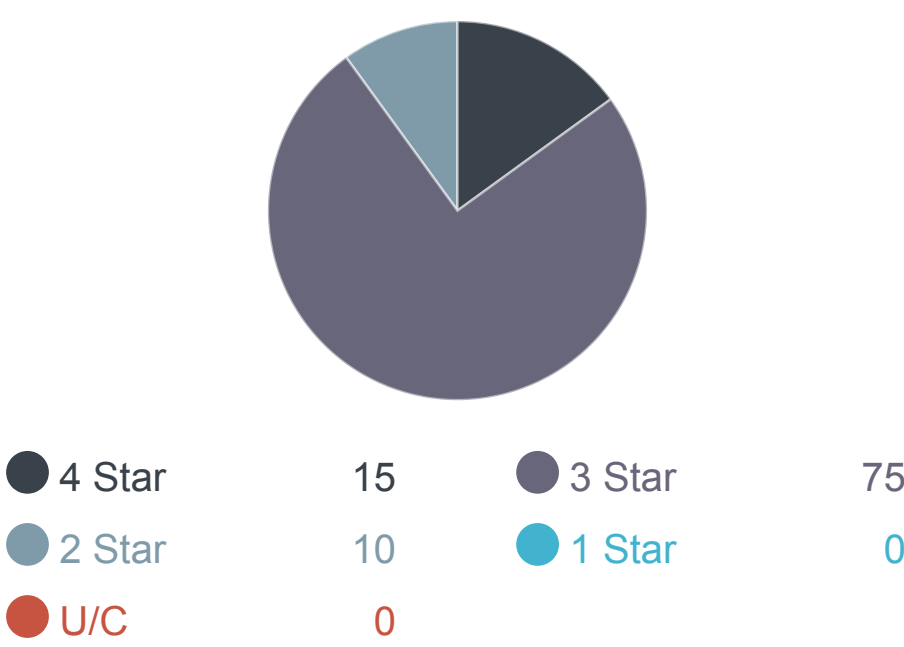
Impact Profile UOA X
University of Name



Average Environment Profile UOA X
All Submissions**

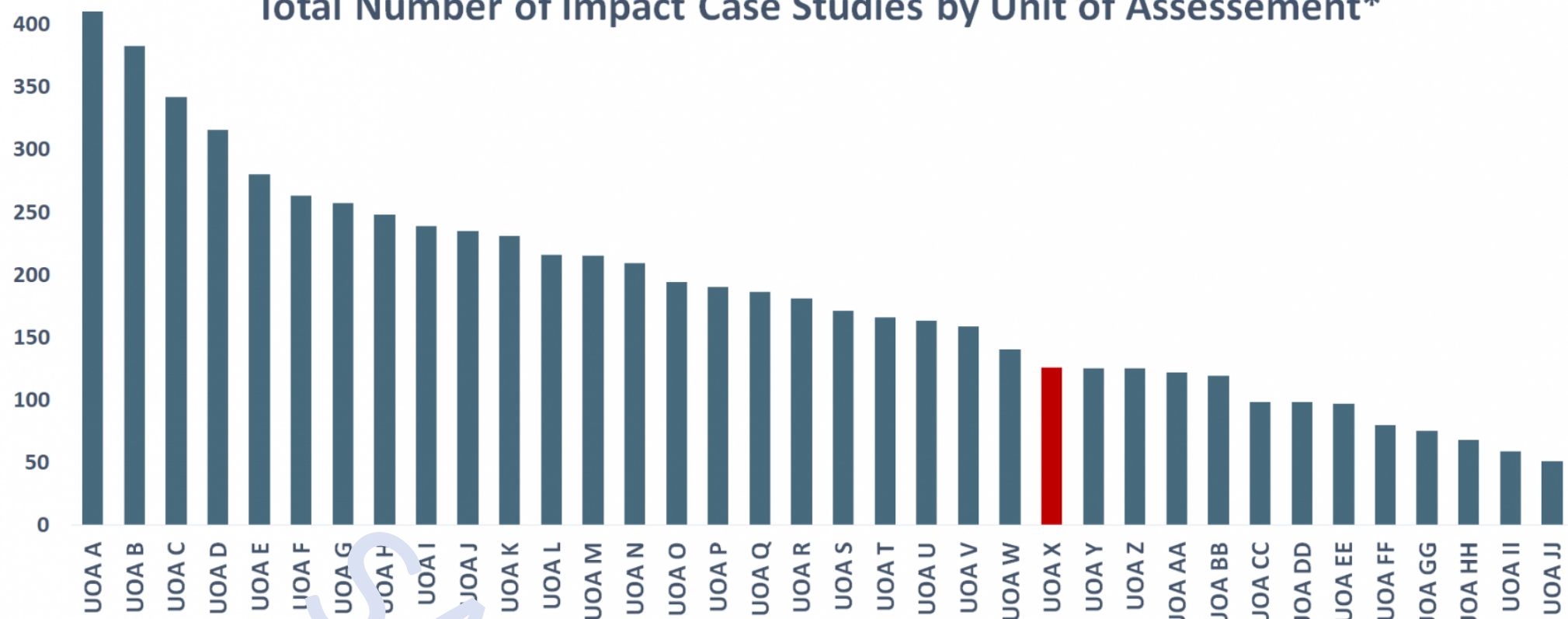


Environment Profile UOA X
University of Name



No. of Impact Case Studies UOA X

Total Number of Impact Case Studies by Unit of Assessement*



139

No. of
UOA X
case studies

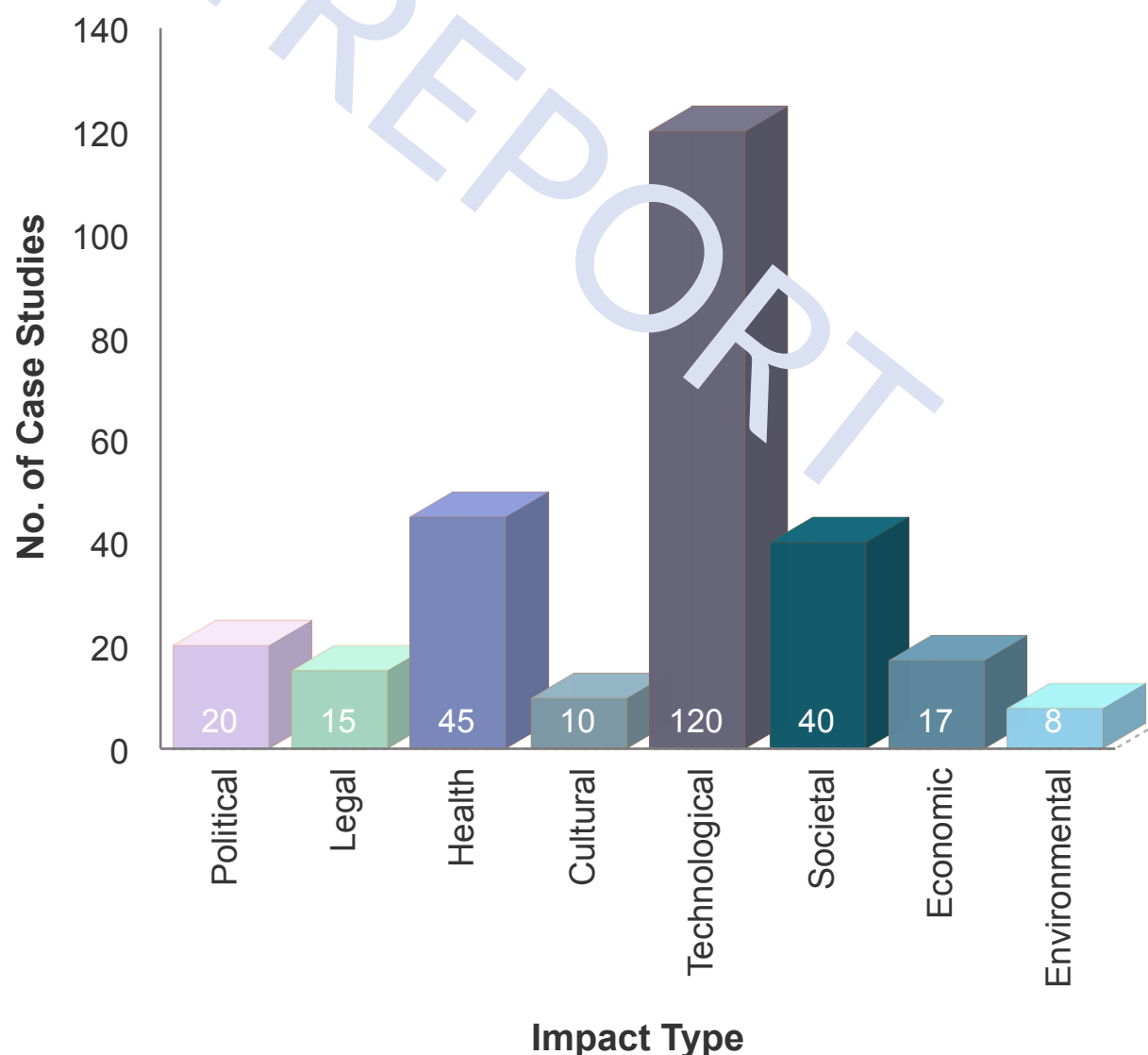
-24%

Percentage
UOA X is
below the
average no. of
case studies.

44%

Percentage of
UOA X case
studies for
impact type
Technological

No. of Case Studies by Impact Type*



Impact Case Study Topics UOA X

The following is a summary of the topic areas covered in Unit of Assessment X impact case studies. With this UOA it has been possible to identify key recurring sectors or areas and so the topics have been summarised and presented here under those sectors:

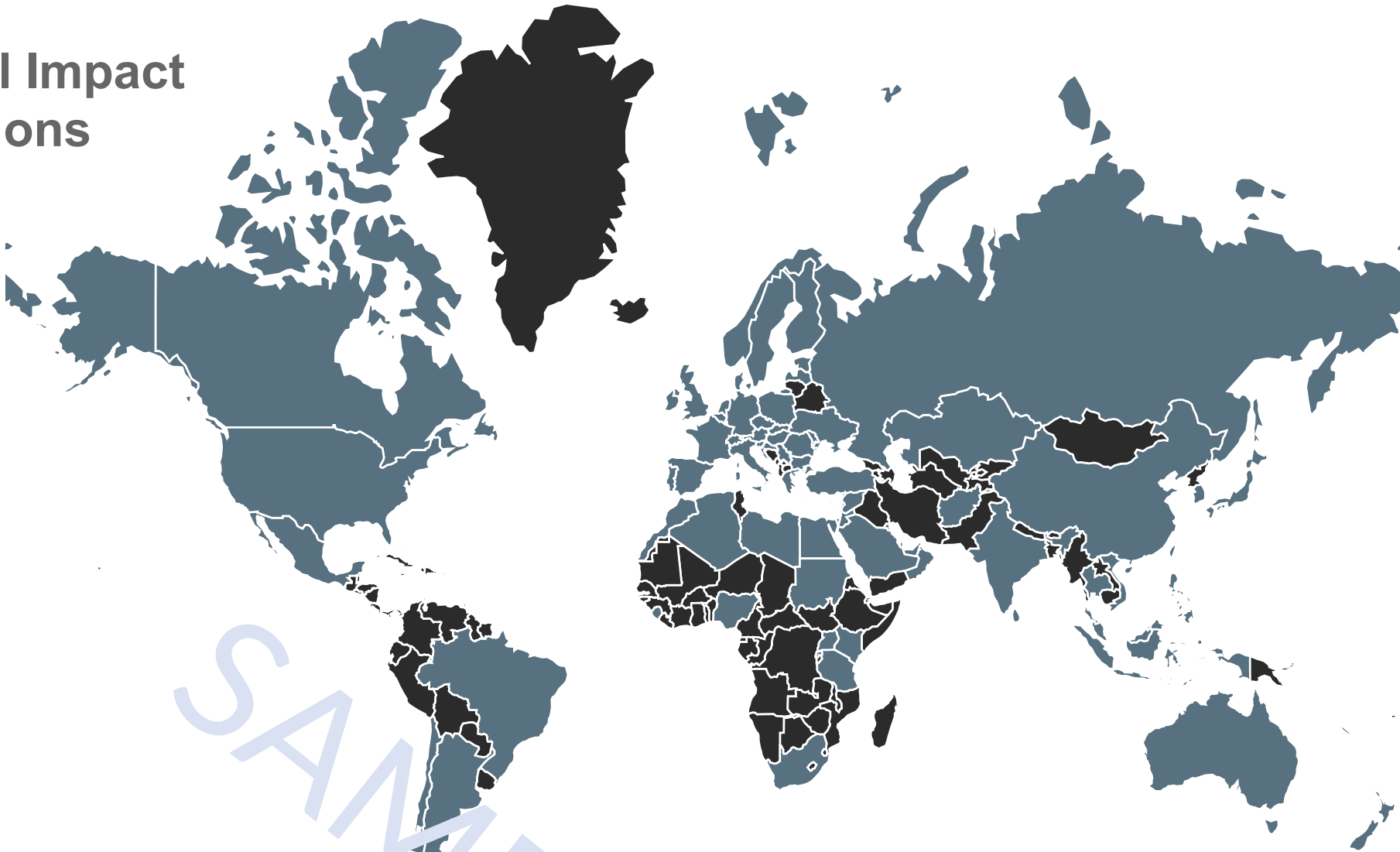
Health	<ul style="list-style-type: none">2D-3D image registrationabnormal blood clottingbiological and cell therapies in orthopaedicsbipolar resection devices in cancer surgerycancer diagnosis and treatment modellingdetecting oxygen levels in organs and tissuesdiagnosing malaria2D-3D image registrationabnormal blood clottingbiological and cell therapies in orthopaedicsbipolar resection devices in cancer surgerycancer diagnosis and treatment modellingdetecting oxygen levels in organs and tissuesdiagnosing malariabiological and cell therapies in orthopaedicsbipolar resection devices in cancer surgerycancer diagnosis and treatmentmodelling detecting oxygen levels in organs and tissuesdiagnosing malariacancer diagnosis and treatment modellingdetecting oxygen levels in organs and tissuesdiagnosing malaria	<ul style="list-style-type: none">abnormal blood clottingbiological and cell therapies in orthopaedicsbipolar resection devices in cancer surgerycancer diagnosis and treatment modellingdetecting oxygen levels in organs and tissuesdiagnosing malaria2D-3D image registrationabnormal blood clottingbiological and cell therapies in orthopaedicsbipolar resection devices in cancer surgerycancer diagnosis and treatment modellingdetecting oxygen levels in organs and tissuesdiagnosing malariabiological and cell therapies in orthopaedicsbipolar resection devices in cancer surgerycancer diagnosis and treatmentmodelling detecting oxygen levels in organs and tissuesdiagnosing malariacancer diagnosis and treatment modellingdetecting oxygen levels in organs and tissuesdiagnosing malaria2D-3D image registration
Manufacturing, Industry, Retail	<ul style="list-style-type: none">advanced manufacturing process for nanomaterialsadvanced simulation technology in miningagility strategiesenvironmental cost of steel framed buildingsabrasive machining fluid deliveryadvanced manufacturing process for nanomaterialsenvironmental cost of steel framed buildingsadvanced manufacturing process for nanomaterialsenvironmental cost of steel framed buildingsadvanced simulation technology in miningabrasive machining fluid deliveryadvanced manufacturing process for nanomaterialsreduced manufacturing material and time to production	<ul style="list-style-type: none">advanced simulation technology in miningagility strategiesenvironmental cost of steel framed buildingsabrasive machining fluid deliveryadvanced manufacturing process for nanomaterialsenvironmental cost of steel framed buildingsadvanced manufacturing process for nanomaterialsenvironmental cost of steel framed buildingsadvanced simulation technology in miningabrasive machining fluid deliveryadvanced manufacturing process for nanomaterialsreduced manufacturing material and time to productionadvanced manufacturing process for nanomaterials
Policy, Government	<ul style="list-style-type: none">mortality and life expectancy estimationoccupational segregationprocess reengineeringprocurement practices of local authoritiesforecasting and costing work based learningminimum income requirement leveloccupational segregationprocess reengineeringprocurement practices of local authoritiesforecasting and costing work based learningprovision of public servicesmortality and life expectancy estimation	<ul style="list-style-type: none">occupational segregationprocess reengineeringprocurement practices of local authoritiesforecasting and costing work based learningminimum income requirement leveloccupational segregationmortality and life expectancy estimationprocess reengineeringprocurement practices of local authoritiesforecasting and costing work based learningprovision of public servicesmortality and life expectancy estimation

Impact Case Study Topics UOA X (continued)

<p>Energy, Environment</p>	<ul style="list-style-type: none"> • anaerobic process technology optimisation • computer-controlled wavemaker • eco-friendly optimisation of ceramic membrane reactor • electricity capacity assessment and design • energy efficiency of gas compressors and expanders • anaerobic process technology optimisation • computer-controlled wavemaker • eco-friendly optimisation of ceramic membrane reactor • electricity capacity assessment and design • energy efficiency of gas compressors and expanders • anaerobic process technology optimisation • computer-controlled wavemaker • eco-friendly optimisation of ceramic membrane reactor • electricity capacity assessment and design • energy efficiency of gas compressors and expanders 	<ul style="list-style-type: none"> • computer-controlled wavemaker • eco-friendly optimisation of ceramic membrane reactor • electricity capacity assessment and design • energy efficiency of gas compressors and expanders • anaerobic process technology optimisation • computer-controlled wavemaker • eco-friendly optimisation of ceramic membrane reactor • electricity capacity assessment and design • energy efficiency of gas compressors and expanders • anaerobic process technology optimisation • computer-controlled wavemaker • eco-friendly optimisation of ceramic membrane reactor • electricity capacity assessment and design • energy efficiency of gas compressors and expanders • anaerobic process technology optimisation
<p>Digital Technology</p>	<ul style="list-style-type: none"> • empowering children - to research and publish own reports • pupils designing their own digital games • reading for pleasure and using new media • implications of new media on young people • using digital video in transforming teaching and learning • empowering children - to research and publish own reports • pupils designing their own digital games • reading for pleasure and using new media • implications of new media on young people • using digital video in transforming teaching and learning • pupils designing their own digital games • reading for pleasure and using new media • using digital video in transforming teaching and learning • implications of new media on young people 	<ul style="list-style-type: none"> • pupils designing their own digital games • reading for pleasure and using new media • implications of new media on young people • using digital video in transforming teaching and learning • empowering children - to research and publish own reports • pupils designing their own digital games • reading for pleasure and using new media • implications of new media on young people • using digital video in transforming teaching and learning • pupils designing their own digital games • reading for pleasure and using new media • using digital video in transforming teaching and learning • implications of new media on young people • empowering children - to research and publish own reports
<p>Culture, Identity, Heritage</p>	<ul style="list-style-type: none"> • community revitalisation - reinterpretation of industrial heritage • development of eighteenth-century theatrical culture • historic building architectural paint research • history and understanding of screen cultures • how artistic reputation is constructed and sustained • identifying mercury residues in historic plant collections • community revitalisation - reinterpretation of industrial heritage • development of eighteenth-century theatrical culture • historic building architectural paint research • history and understanding of screen cultures • how artistic reputation is constructed and sustained 	<ul style="list-style-type: none"> • development of eighteenth-century theatrical culture • historic building architectural paint research • history and understanding of screen cultures • how artistic reputation is constructed and sustained • identifying mercury residues in historic plant collections • community revitalisation - reinterpretation of industrial heritage • development of eighteenth-century theatrical culture • historic building architectural paint research • history and understanding of screen cultures • how artistic reputation is constructed and sustained • identifying mercury residues in historic plant collections

Impact Locations - UOA X Impact Case Studies

Global Impact Locations

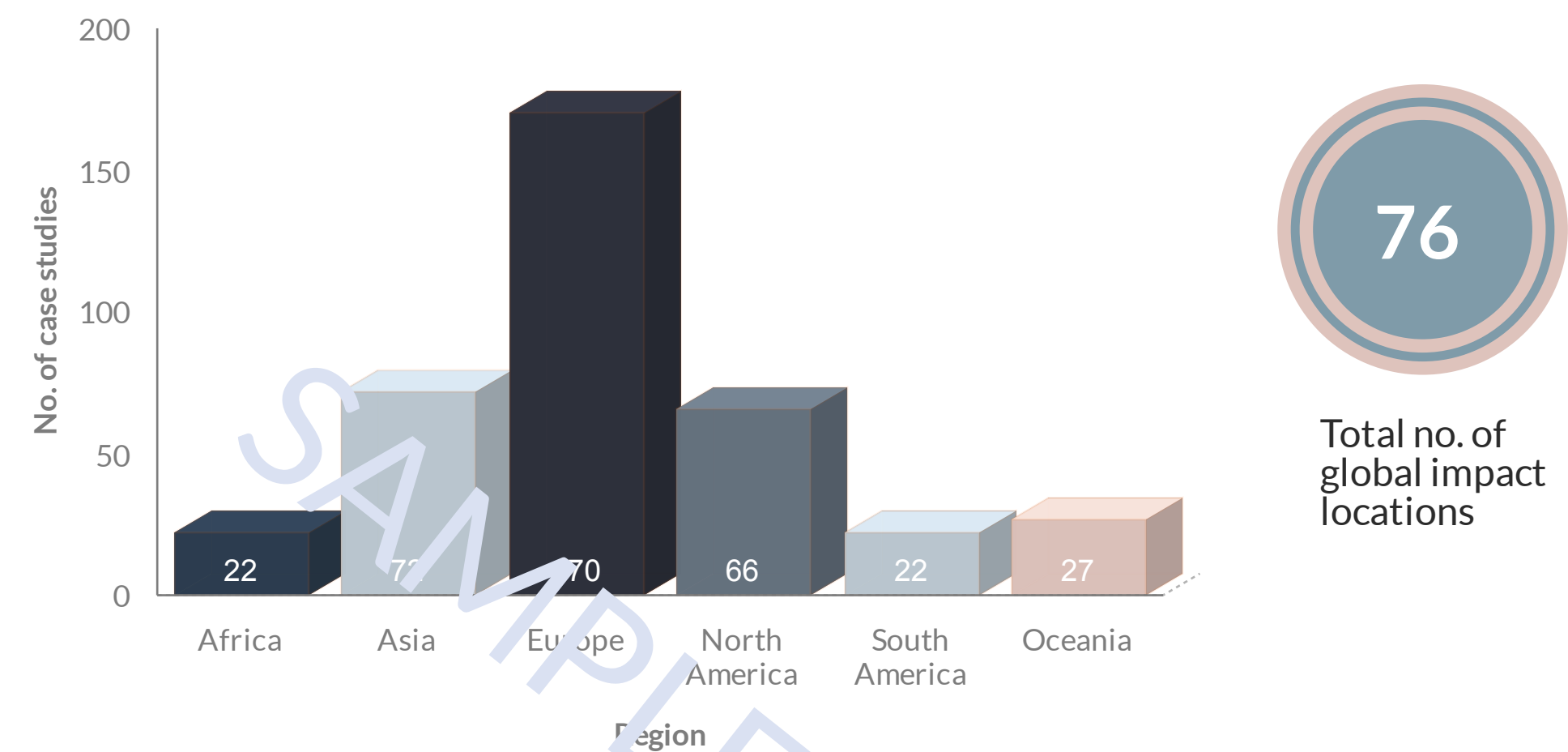


Impact Locations
Referenced

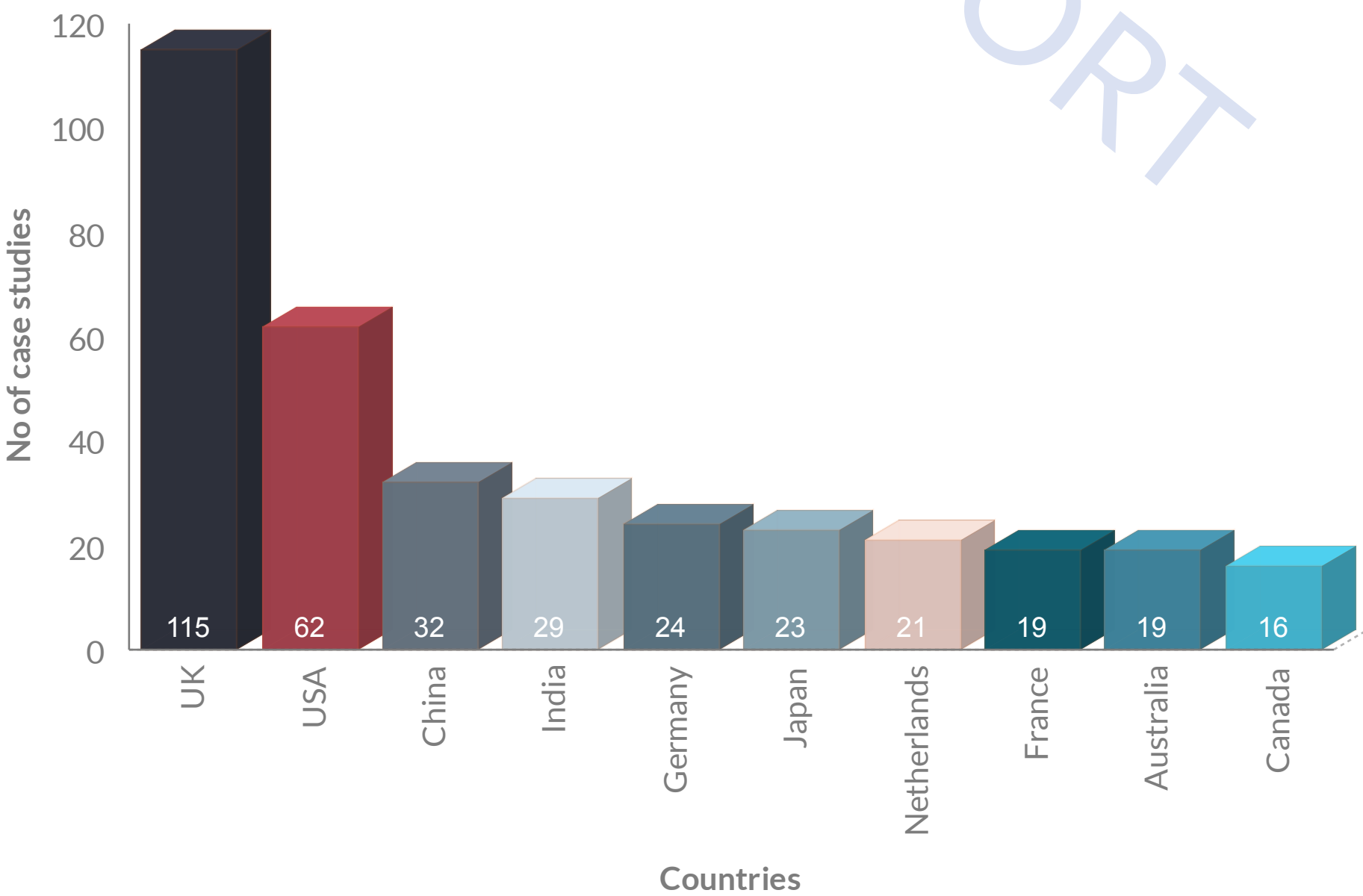
<div>Africa<ul style="list-style-type: none">AlgeriaEgyptKenyaLibyaMoroccoNigeriaRwandaSierra LeoneSouth AfricaSudanTanzaniaUganda</div>	<div>Asia<ul style="list-style-type: none">AfghanistanChinaIndiaIndonesiaIsraelJapanJordanKazakhstanKuwaitLebanonMalaysiaOmanPalestinian TerritoryPhilippinesQatarSaudi ArabiaSouth KoreaSri LankaSyriaTaiwanThailandTurkeyUnited Arab EmiratesVietnam</div>	<div>Europe<ul style="list-style-type: none">AlbaniaBelgiumBulgariaCroatiaCzech RepublicDenmarkEstoniaFinlandFranceGermanyGibraltarGreeceHungaryIrelandItalyLatviaLuxembourgMoldovaNetherlandsNorwayPolandPortugalRomaniaRussiaSerbiaSlovakiaSloveniaSpainSwedenSwitzerlandUkraineUnited Kingdom</div>	<div>North America<ul style="list-style-type: none">CanadaMexicoUnited StatesSouth America<ul style="list-style-type: none">ArgentinaBrazilChileOceania<ul style="list-style-type: none">AustraliaNew Zealand</div>
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Global Impact Locations UOA X

No. of Case Studies by Regional Reference*

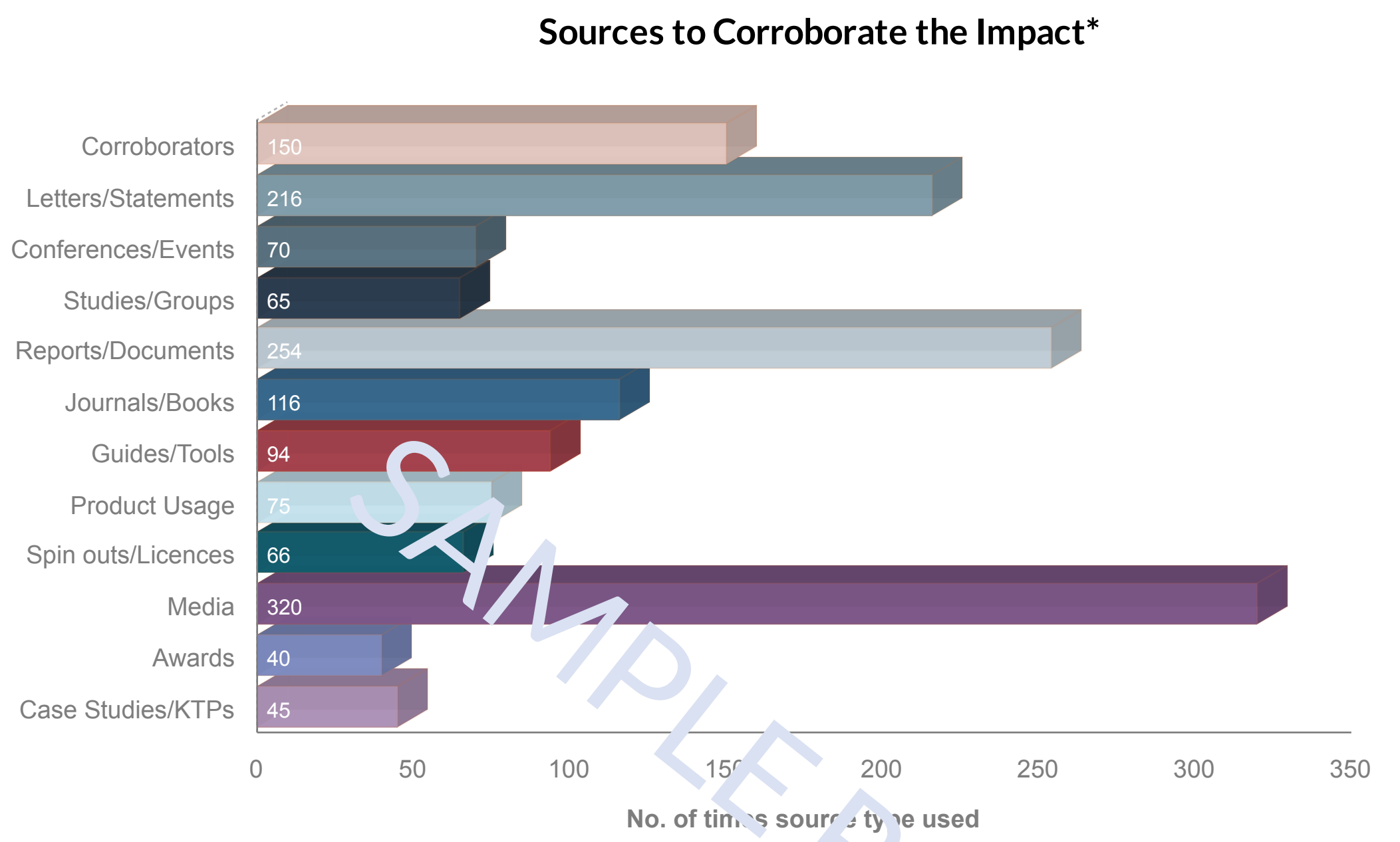


Countries most cited in impact section of case studies*



Sources to Corroborate the Impact UOA X

This section is a review of the 'sources to corroborate the Impact' section of UOA X's impact case studies, and provides a general overview/summary of the types of sources used to corroborate impact. Please NOTE: website numbers not included in chart (due to the high volume) but included in listings following.



150	Corroborators Number of corroborators by name, title, role, or organisation, who are available to be contacted to corroborate impact.
216	Letters / Quotations / Statements Number of corroborators that have provided, included, and/or can be made available on request, a quote, testimonial, statement, email, letter or note of corroboration, or direct client / customer/ business feedback.
70	Conferences / Events Conferences, festivals, summer schools, launches, events, forums, tutorials, seminars, workshops, speeches, demonstrations, exhibitions, school events, presentations and SlideShare.
65	Studies / Working Groups Committee papers, minutes, working groups, proposals, surveys, polls, task force, trials, meetings, studies, discussions, test results, groups, statistics and data analysis.

Sources to Corroborate Impact UOA X (continued)

The following items were listed as sources to corroborate the impact. In these items the corroboration can vary from being cited, referenced to, included in, submitted to, presented in, featured in, originated, produced or used.

254	Reports / Documentation Reports: final, annual, KTP, market, project, assessment and company reports. Parliamentary/government reports, policies, papers and bills. Documents: strategy, briefing, information, executive summary, approval and action plans. Financial documents: contracts, profit, sales, revenue and invoices.
116	Journals / Books Abstracts, referenced, contributed to, cited in, or author of books, thesis, dissertations and articles in journals and publications.
94	Guides / Tools / Standards Guides, guidance notes, guidelines, tools, datasheets, manuals, implementation, descriptions, online guides, product detail, handbooks, scenarios, catalogues, requirements, codes, algorithms, specifications, standards, user information, release notes, developer documentation, protocols, improvements, system information, technical guides, brochures, flyers, and leaflets.
75	Product Usage / Downloads Equipment, software, applications, systems, platforms and prototypes used. Visitor and user statistics, purchases, subscriptions and downloads from websites, iTunes, Google Play, Amazon and open access.
66	Spin outs / Licences Patents (granted, pending, application), spin outs, material transfer agreements, funding, grants, NDAs, contracts, memorandum of understanding, intellectual property licence and technology transfers.
320	Media / Newsletters Press releases, press/magazine articles or editorials, broadcast (TV, Radio), YouTube, videos, interviews, profiles, newsletters, e-newsletters, bulletins, Wikipedia, Vimeo, Flickr, blogs, social media and screenshots.
40	Awards Awards, nominations, finalists, winners, prizes, members, competitions and certificates.
45	Case Studies / Knowledge Transfer Partnerships Knowledge Transfer Partnership (KTP) projects referenced, and case studies.
910	Websites Websites referenced, URL listed.

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*Data Source: <http://impact.ref.ac.uk/CaseStudies/Results.aspx?val=Show%20All> and <http://results.ref.ac.uk/Results/SelectUoa> REF 2014: Unit of assessment summary data. The rounding methodology described in Annex B of REF 02.2011, 'Assessment framework and guidance on submissions', has been used to produce the outcomes shown in the averages table. The average overall quality profile and average sub-profiles have been adjusted for the number of Category A staff in each submission. Submissions with 3 or fewer staff (headcounts) are excluded from the calculation of the average sub-profiles.

†Source: <http://www.hefce.ac.uk/funding/annalocns/1516/research/q1516spreadsheet>. 2014 Research Excellence Framework quality sub-profile outcomes. 2015-16 Model total QR quanta for whole UOA (£). HEFCE data for 2015-16 Mainstream quality-related research (QR) funding and London weighting spreadsheet. Notes relating to q1516 spreadsheet: Submissions are only shown, where the quality sub-profile has some activity at the 3* or 4* level. Three Institutions involved in joint submissions at the subject level opted to override the normal formula that determines the split of mainstream QR funding between them. The allocations in the spreadsheet reflect their agreed funding splits.

Sources

<http://www.hefce.ac.uk/>
<http://www.ref.ac.uk/2014/>

Created by

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