

Open API Adoption Assessment Reports V3 (Q2 2020) Vendor & CSP Results

June 2020

Key Takeaways from V3 survey (Q2 2020)

- 39 companies participated
 - 34% increase since v2 (Q3 2019) with 8 new vendors and 2 new CSPs
- Significant increase in momentum towards Open API adoption
 - Average industry **Intent**[†] increased by 9 percentage points
- Vendors are responding to CSP demand
 - Vendor **Maturity**[†] increased 7 percentage points
- CSPs and vendors are well aligned on priorities
 - CSPs have a slightly broader focus on a wider range of APIs
- CSP maturity remains (on average) higher than the vendors
 - Average is skewed by the leaders wrapping legacy APIs pending native support in vendors' products

[†] See [Appendix](#) for explanation of terminology and scoring

- **Good levels of participation in the survey**
 - The V3 (Q2 2020) survey included 25 vendor participants and 14 CSP participants (34% increase on the Q3 2019 survey)
- **Significant industry momentum towards Open API adoption**
 - Average industry **Intent**[†] (combined scores for CSPs and vendors) increased by 9 percentage points since the previous survey
 - CSP and vendor **Intent** are well aligned
- **Increasing maturity of Open API deployments**
 - Vendor **Maturity** increased by 7 percentage points – faster than CSPs (single point increase)
 - Vendors appear to be responding to CSP demand, with several moving into the top right quadrant
 - CSP Maturity remains (on average) higher than the vendors, but results are skewed by the leaders
 - Leading CSPs (eg [Vodafone](#)) are wrapping their legacy APIs as a placeholder pending native support in vendors' products
- **CSP demand creates opportunity for vendors**
 - Average CSP **Intent** is higher than average vendor **Maturity**, providing motivation for vendors – demand outstrips availability
 - There is plenty of opportunity to serve CSPs with low **Maturity** and high **Intent**
 - Leading CSPs need native Open API support from their vendors in order to replace their DIY wrappers
- **CSP and vendor prioritization of API collections are well aligned**
 - CSPs have a somewhat wider focus (also seen in download [stats from the Open API table](#))

[†] See [Appendix](#) for explanation of terminology and scoring



Lester Thomas

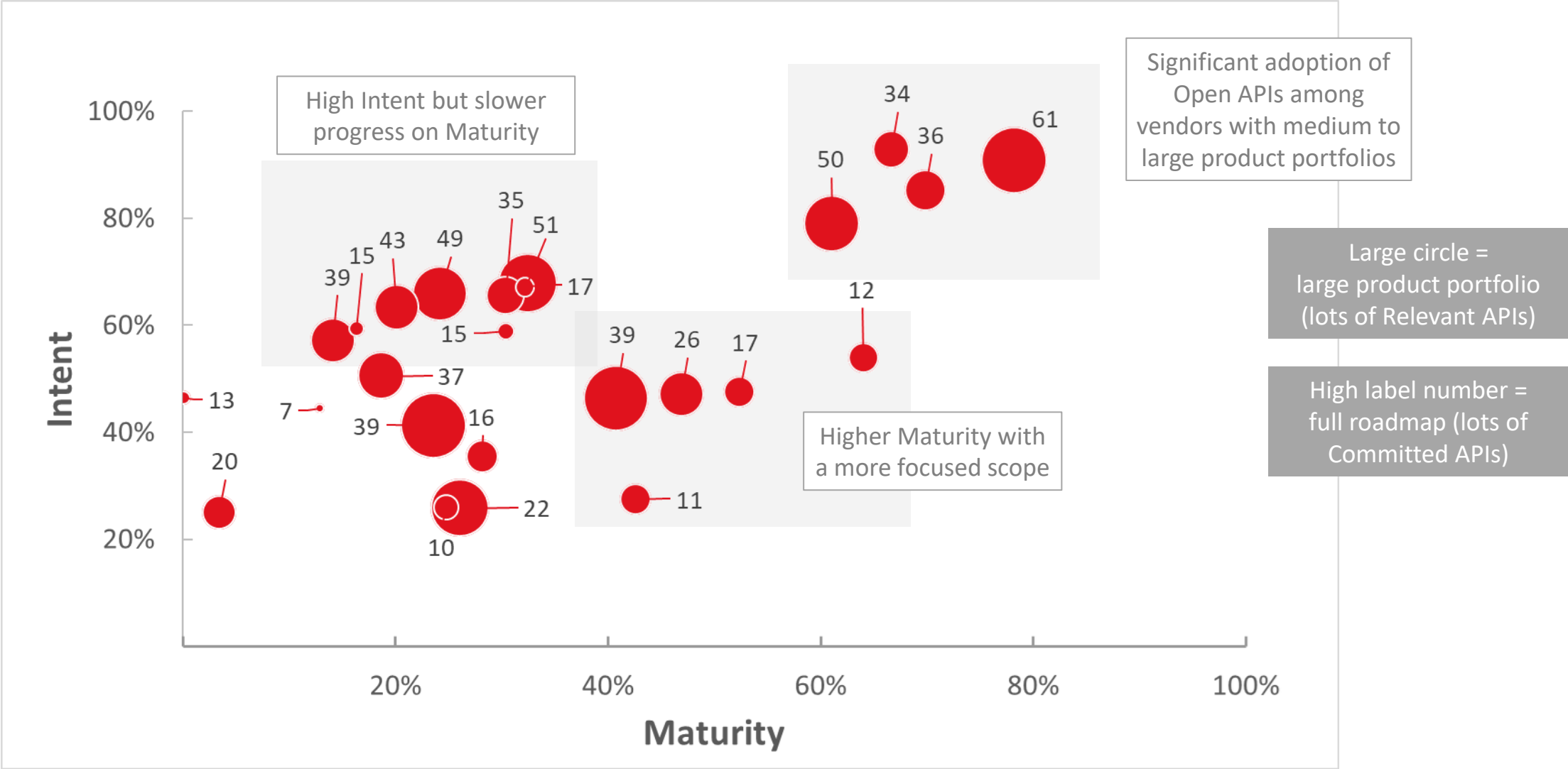
Chief IT Systems Architect
at Vodafone Group

“The majority of our Open API implementations to date have been wrapping our product vendors’ legacy APIs. This is partly driven from the fact that we are building a Digital Experience layer across all our markets, whilst we are modernising the back-end vendor systems-of-record at a slower rate.

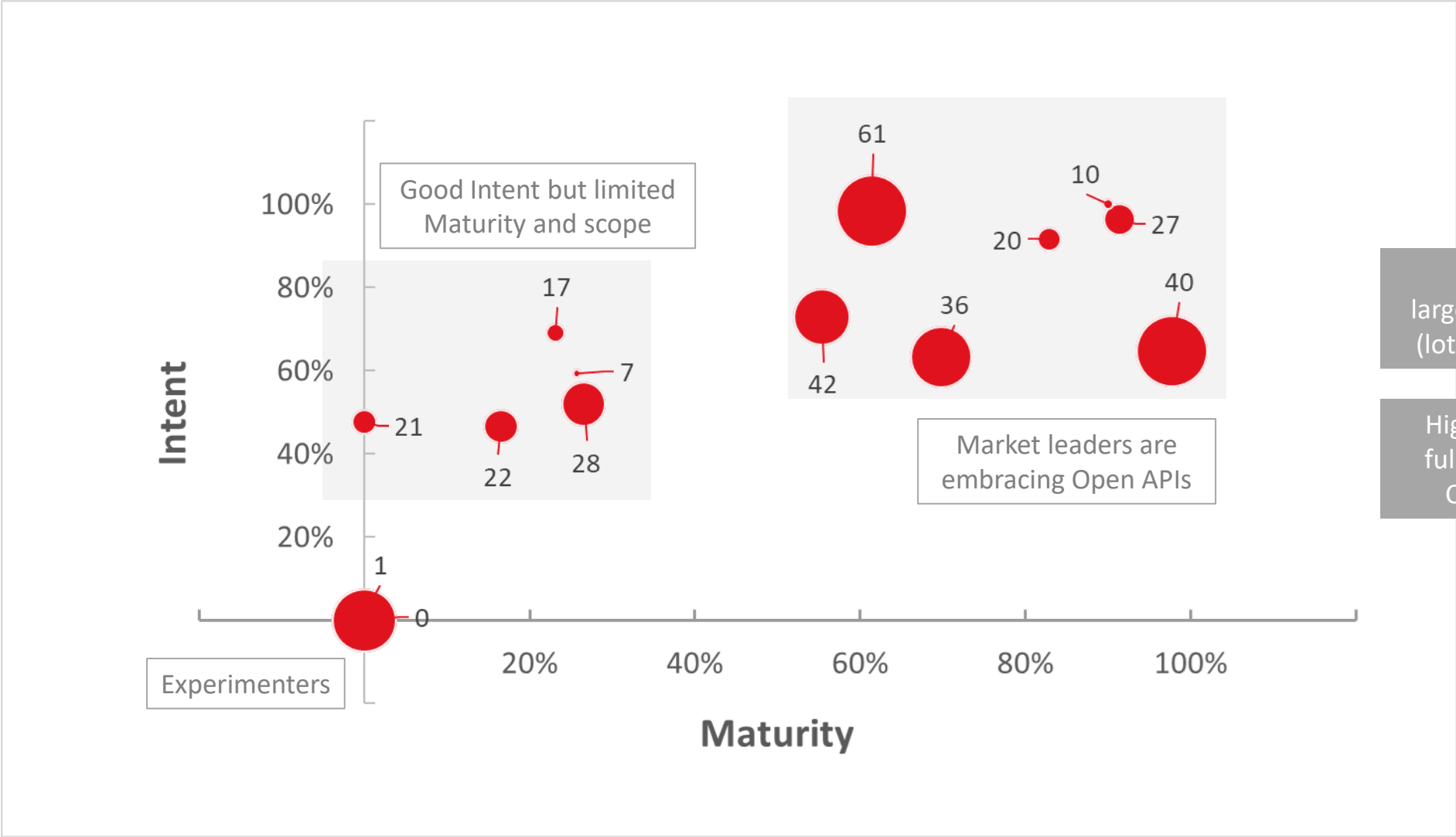
“We have started to see native TMF Open API implementations from some of our vendors, and all the new BSS implementations we have done over the last 2 years have included native support for TMF Open APIs.

“In the enterprise space, we are also seeing some enterprise customers mandating the use of Open APIs as part of their RFPs, and we are starting to see inter-operator use-cases based on Open-APIs.”

Vendor Results V3 (Q2 2020)



- Each circle represents the scores for an individual respondent (anonymized)
- Size of circle indicates the number of Relevant APIs | Label represents the number of Committed APIs

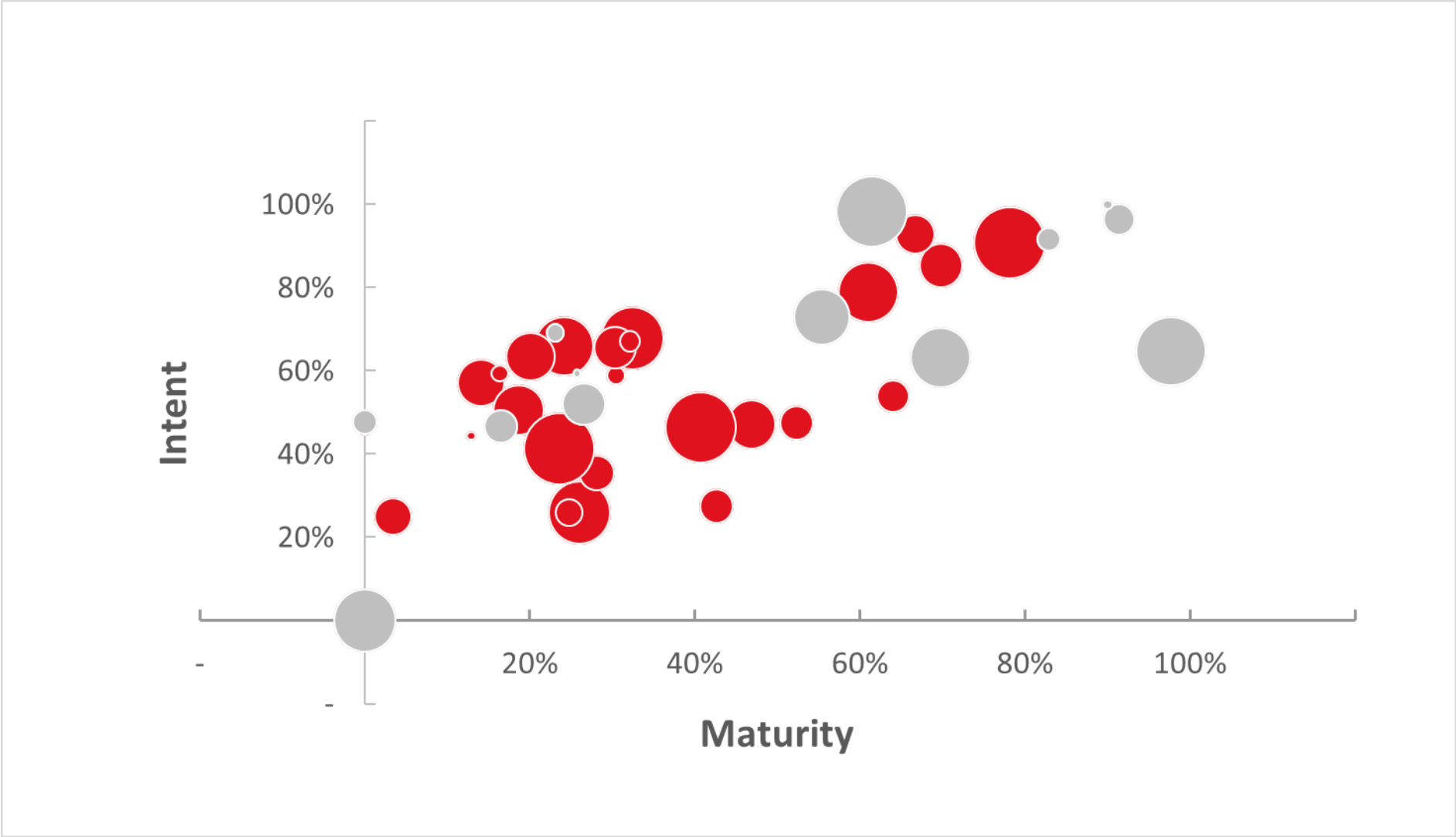


Large circle = large product portfolio (lots of Relevant APIs)

High label number = full roadmap (lots of Committed APIs)

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Combined CSP and Vendor Results V3 (Q2 2020)

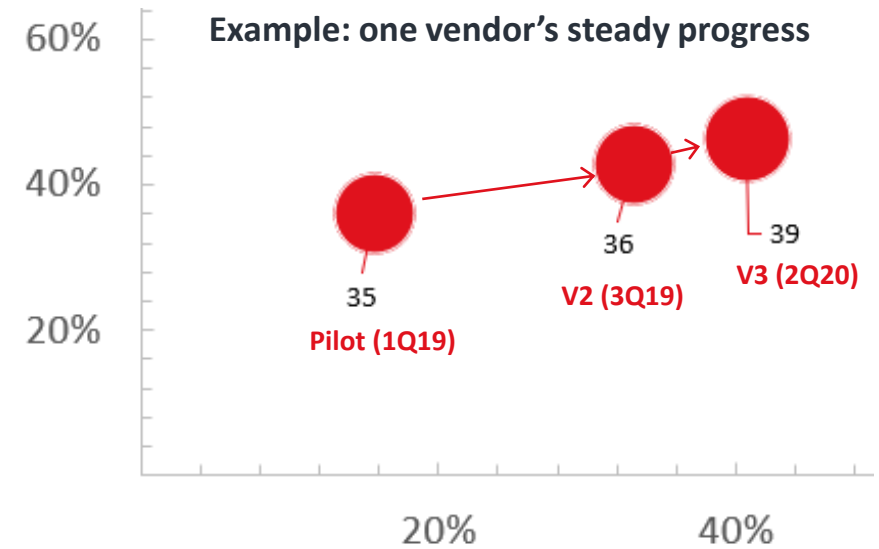


- Red circles – Vendor results
- Grey circles – CSP results

Average Scores and Growth Trends

	Participants		Average Maturity†		Average Intent†	
	V3 Number	Increase‡	V3 Score	Increase‡	V3 Score	Increase‡
Vendors	25	8	38%	7 points	56%	7 points
CSPs	14	2	58%	1 point	59%	12 points
Combined	39	10	45%	4 points	57%	9 points

- 8 new vendors and 2 new CSPs participated in V3
 - 34% increase in participation compared to V2 (Q3 2019)
- Significant increase in industry intent to deploy Open APIs
 - CSP **Intent** increased 12 percentage points
 - Vendor **Intent** increased 7 percentage points
- Vendor maturity is increasing but still lags CSP maturity
 - Average vendor **Maturity** score increased 7 percentage points
 - Several vendors reported significant improvement since V2*
 - CSP **Maturity** remains higher than vendors but increasing more slowly

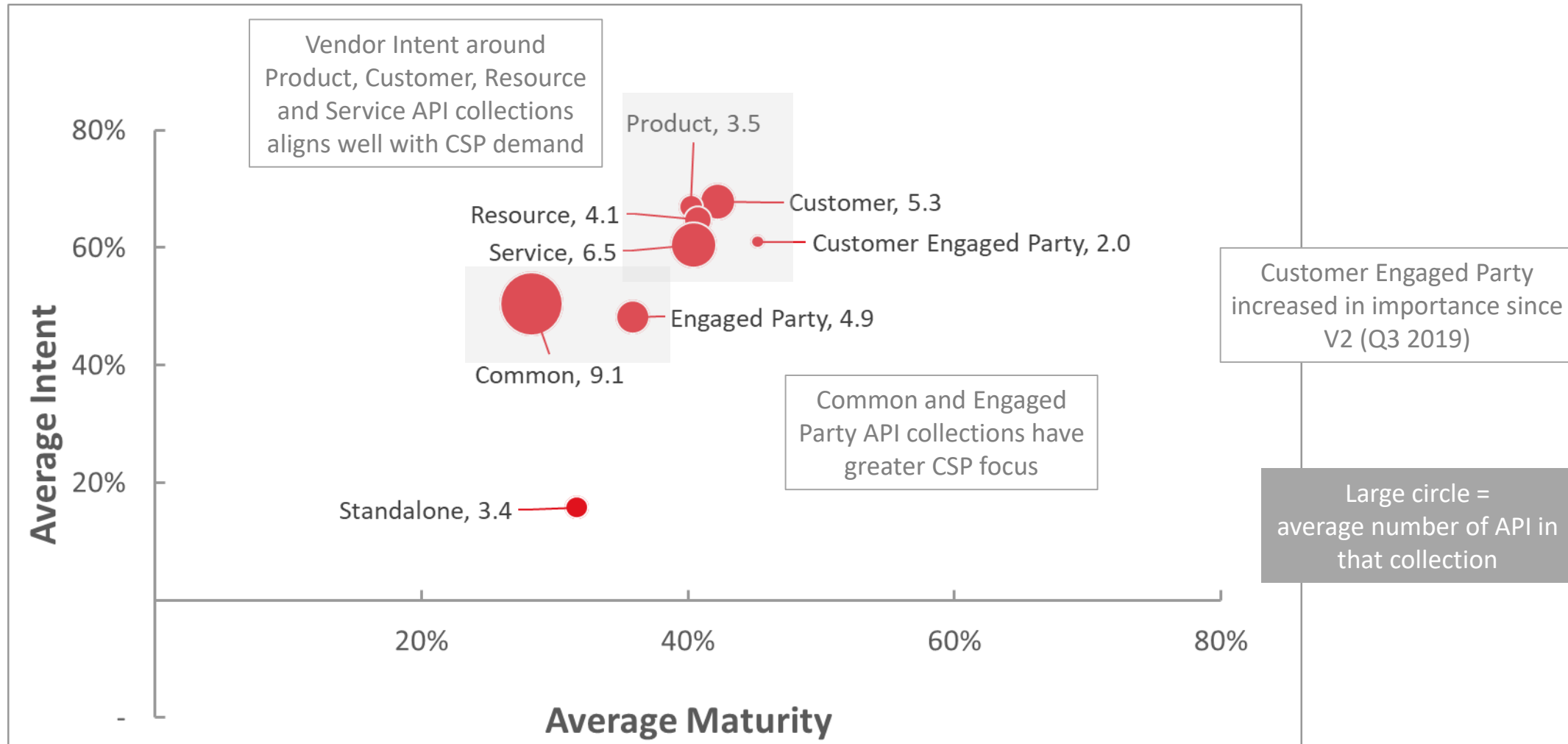


† Average Maturity is weighted by the number of Committed APIs | Average Intent is weighted by the number of Relevant APIs

‡ Increase compared to v2 (Q3 2019)

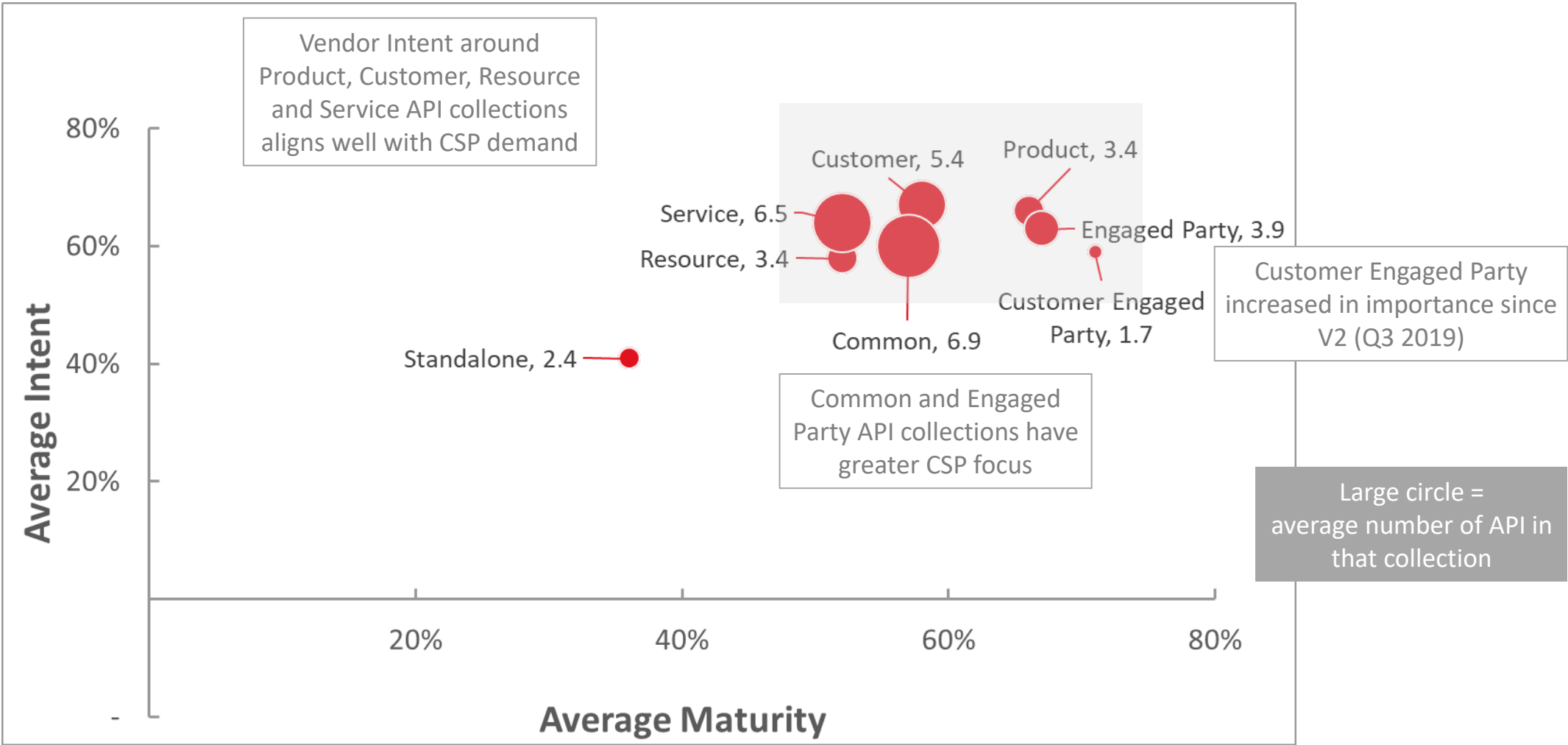
* For participants who did not update their scores, small backwards **Maturity** moves are due to new availability of conformance certification for some APIs since 3Q19, which increases the maximum available Maturity score (ie participants now need certification to score maximum Maturity points)

Vendor Focus by API Collection V3 (Q2 2020)



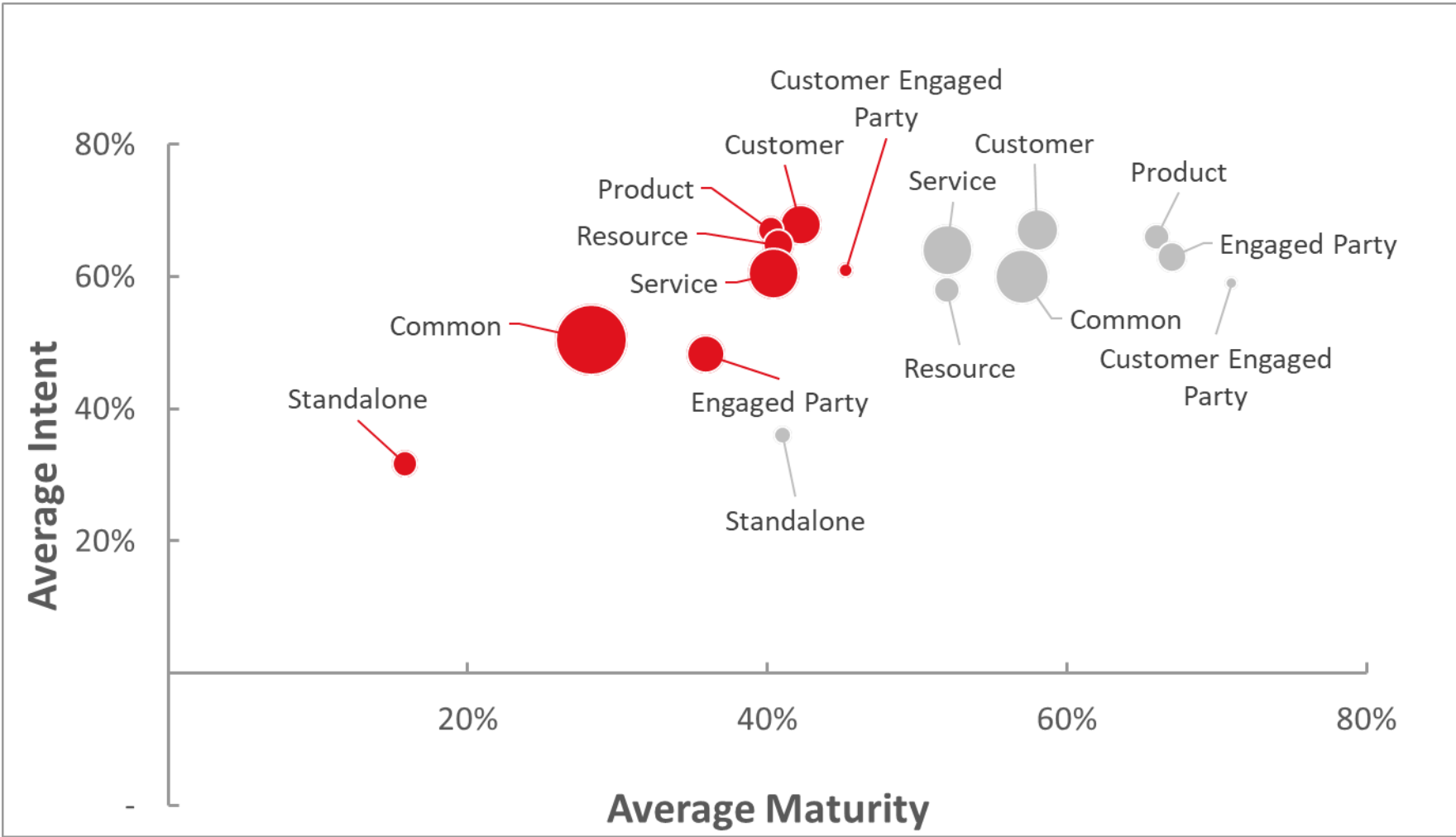
- **Maturity & Intent** scores for each Open API collection are averaged across all respondents
- Label and circle size indicate the average number of Relevant APIs

CSP Focus by API Collection V3 (Q2 2020)



- **Maturity & Intent** scores for each Open API collection are averaged across all respondents
- Label and circle size indicate the average number of Relevant APIs

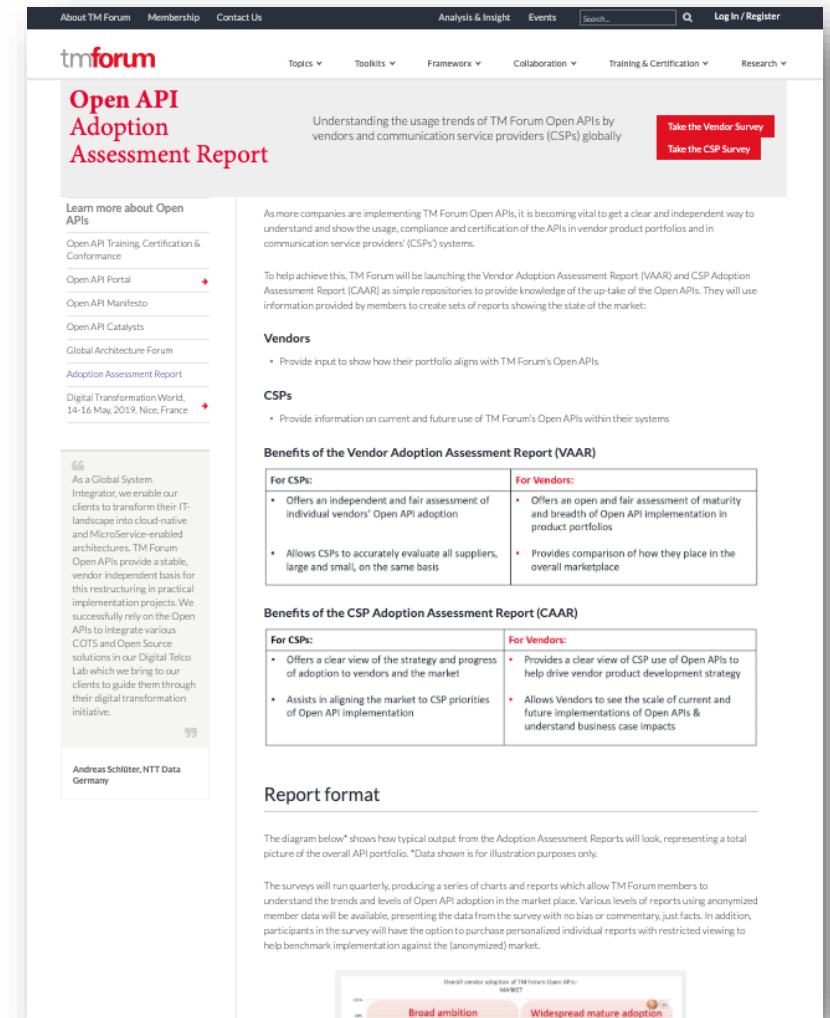
Combined Focus by API Collection V3 (Q2 2020)



- Red circles – Vendor results
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Links to materials and surveys

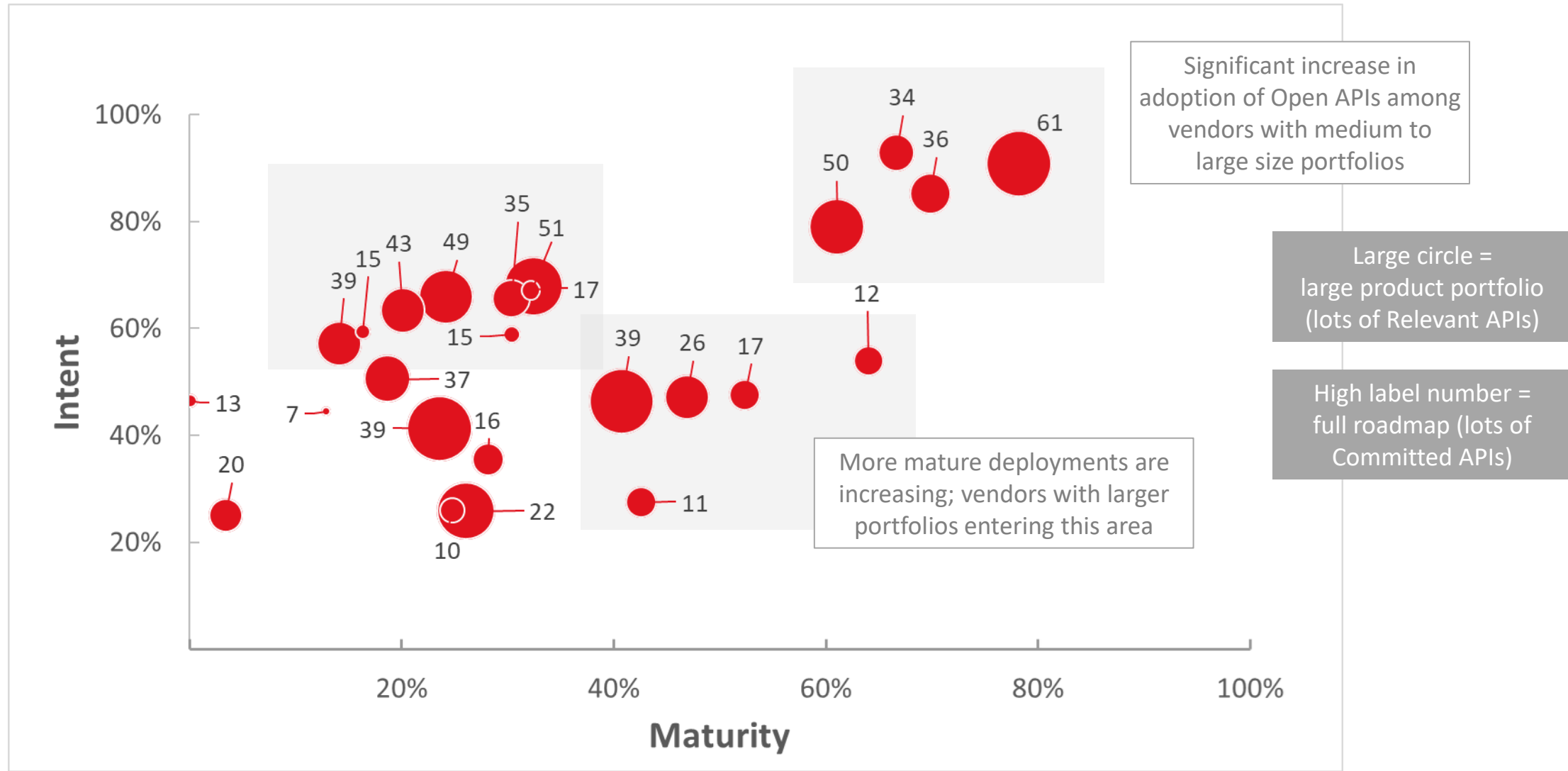
- Main Open API adoption assessment webpage
 - <https://www.tmforum.org/open-apis/adoption-assessment-report/>
- Two V3 Surveys
 - CSP Survey: https://www.surveymonkey.co.uk/r/VAAR_V3_2020
 - Vendor Survey: https://www.surveymonkey.co.uk/r/CAAR_V3_2020
- Open API Table
 - <https://projects.tmforum.org/wiki/display/API/Open+API+Table>
- **CALL TO ACTION**
 - **TM Forum Members to participate**
 - Still open for inclusion in V3 update planned for our Q4 events





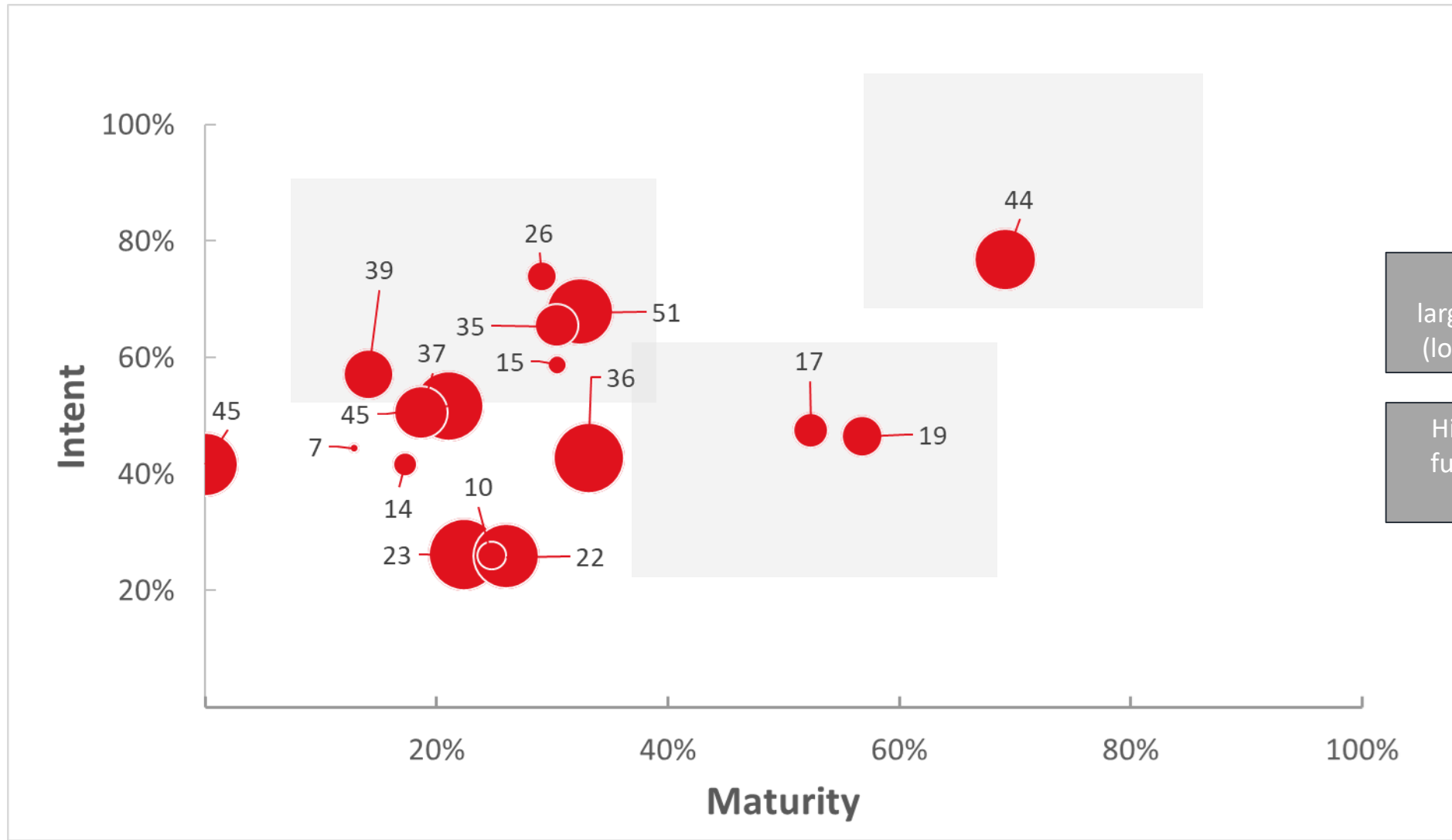
V3 (2Q20) Comparisons to v2 (3Q19)

Vendor Results V3 (Q2 2020)



- Each circle represents the scores for an individual respondent (anonymized)
- Size of circle indicates the number of Relevant APIs | Label represents the number of Committed APIs

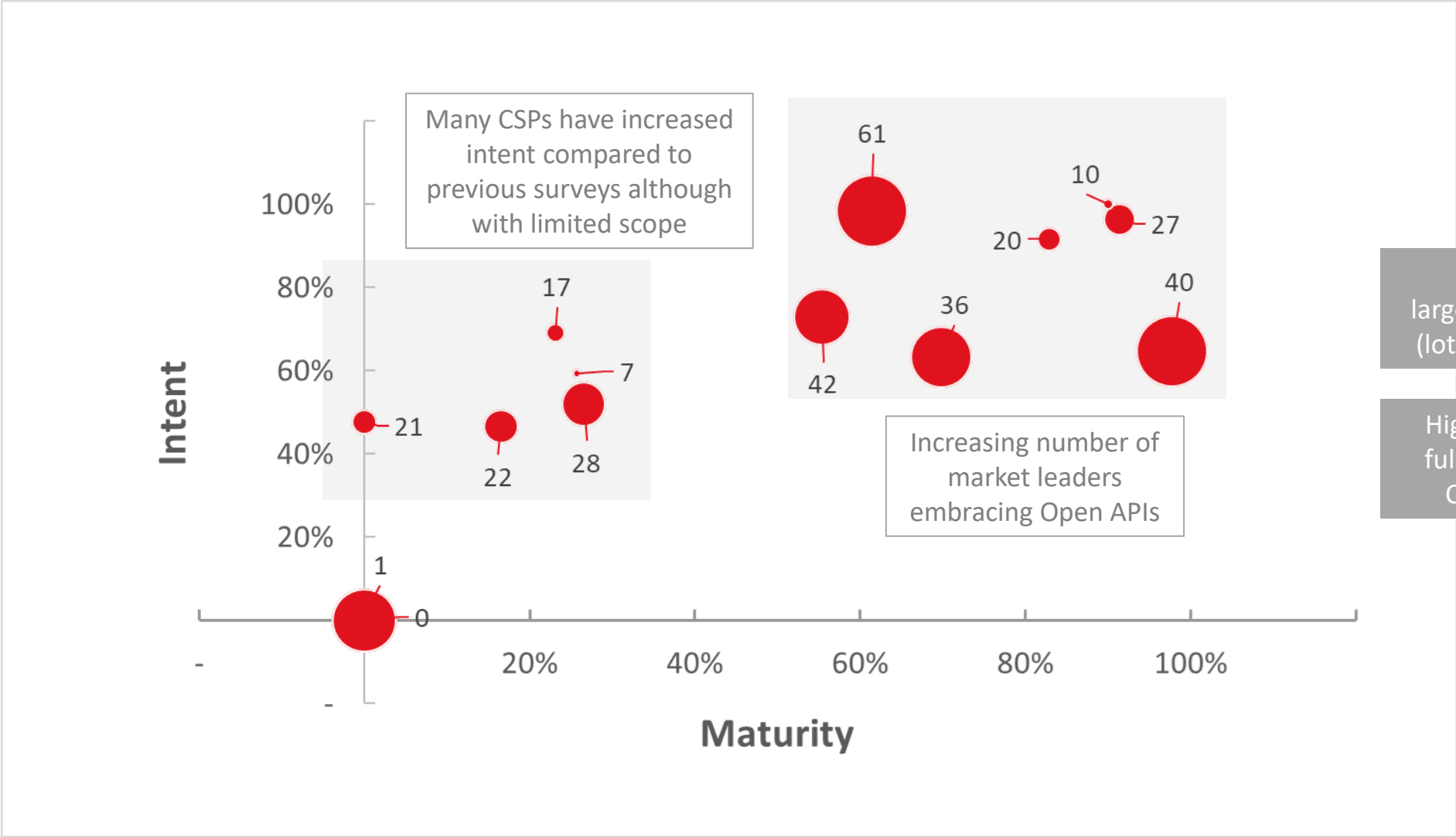
Vendor Results V2 (Q3 2019)



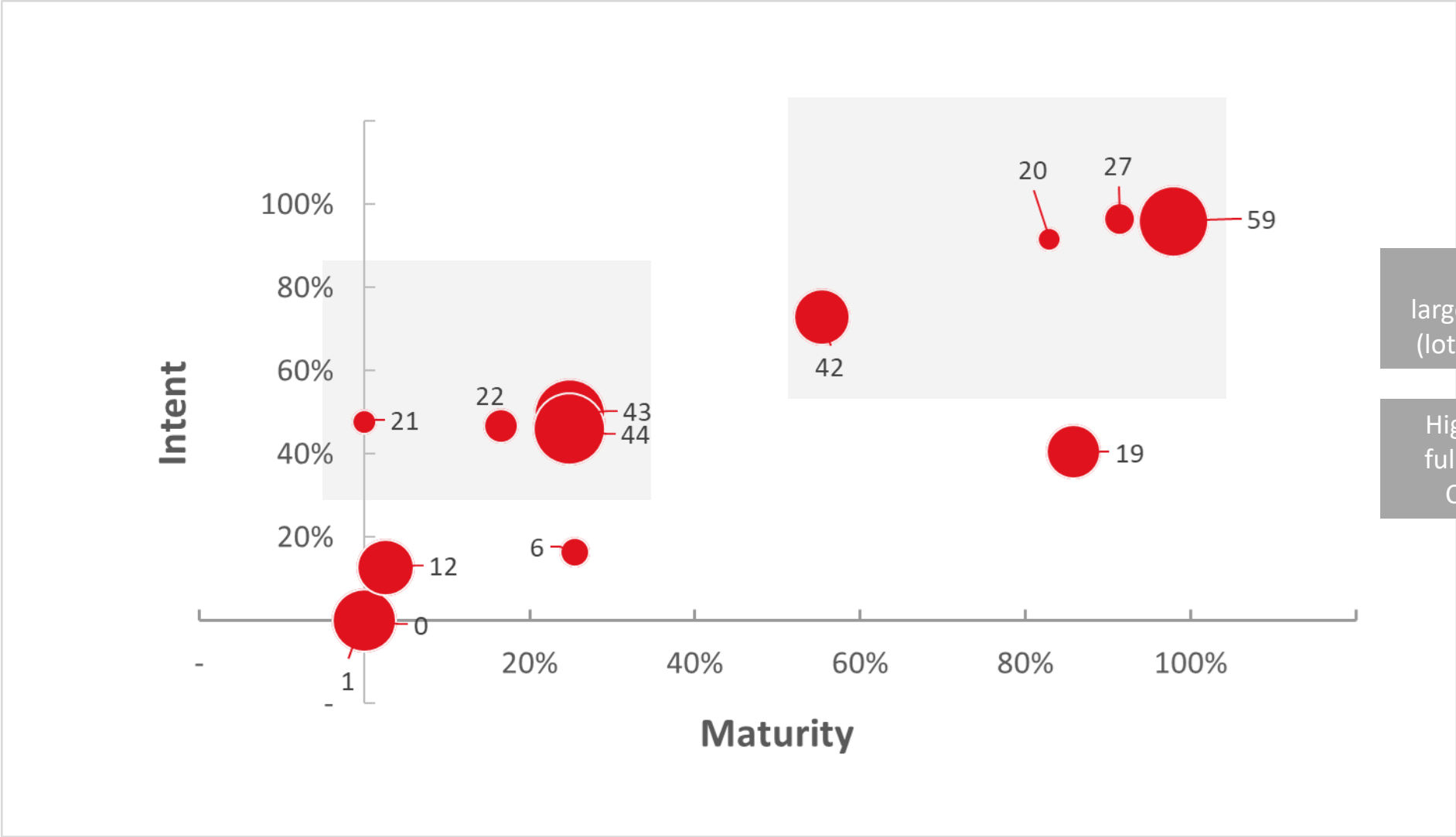
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Comparison of survey results

Vendor	Average Maturity [†]	Average Intent [†]	Participants
Pilot (1Q19)	30%	44%	12
v2 Q3 2019	31%	49%	17
v3 Q2 2020	38%	56%	25

CSP	Average Maturity [†]	Average Intent [†]	Participants
Pilot (1Q19)	33%	39%	7
v2 Q3 2019	56%	47%	12
v3 Q2 2020	58%	59%	14

Combined	Average Maturity [†]	Average Intent [†]	Participants
Pilot (1Q19)	33%	40%	19
v2 Q3 2019	41%	48%	29
v3 Q2 2020	45%	57%	39

[†] Average Maturity is weighted by the number of Committed APIs | Average Intent is weighted by the number of Relevant APIs

* For participants who did not update their scores, small backwards **Maturity** moves are due to new availability of conformance certification for some APIs since 3Q19, which increases the maximum available Maturity score (ie participants now need certification to score maximum Maturity points)

Open API Table Downloads

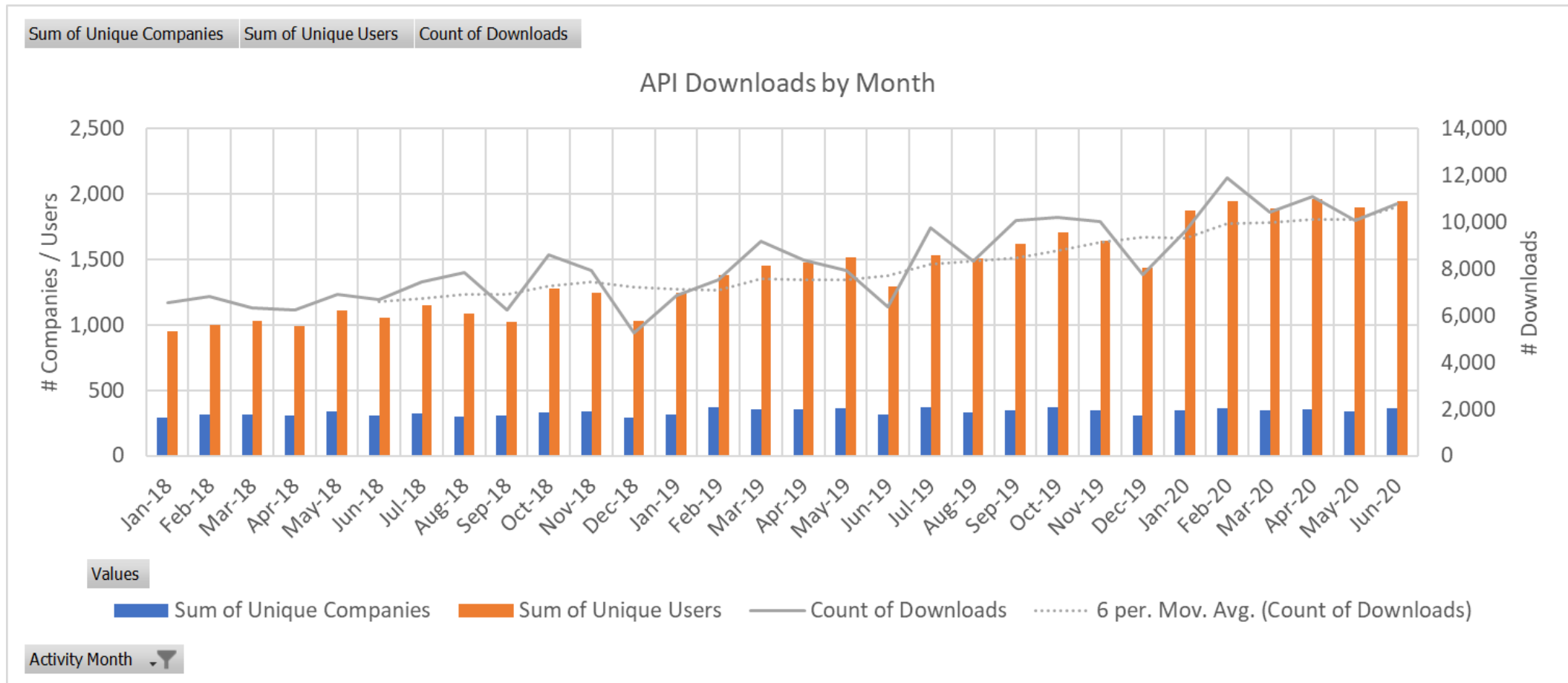
EXPLORE.
COLLABORATE.
BECOME.



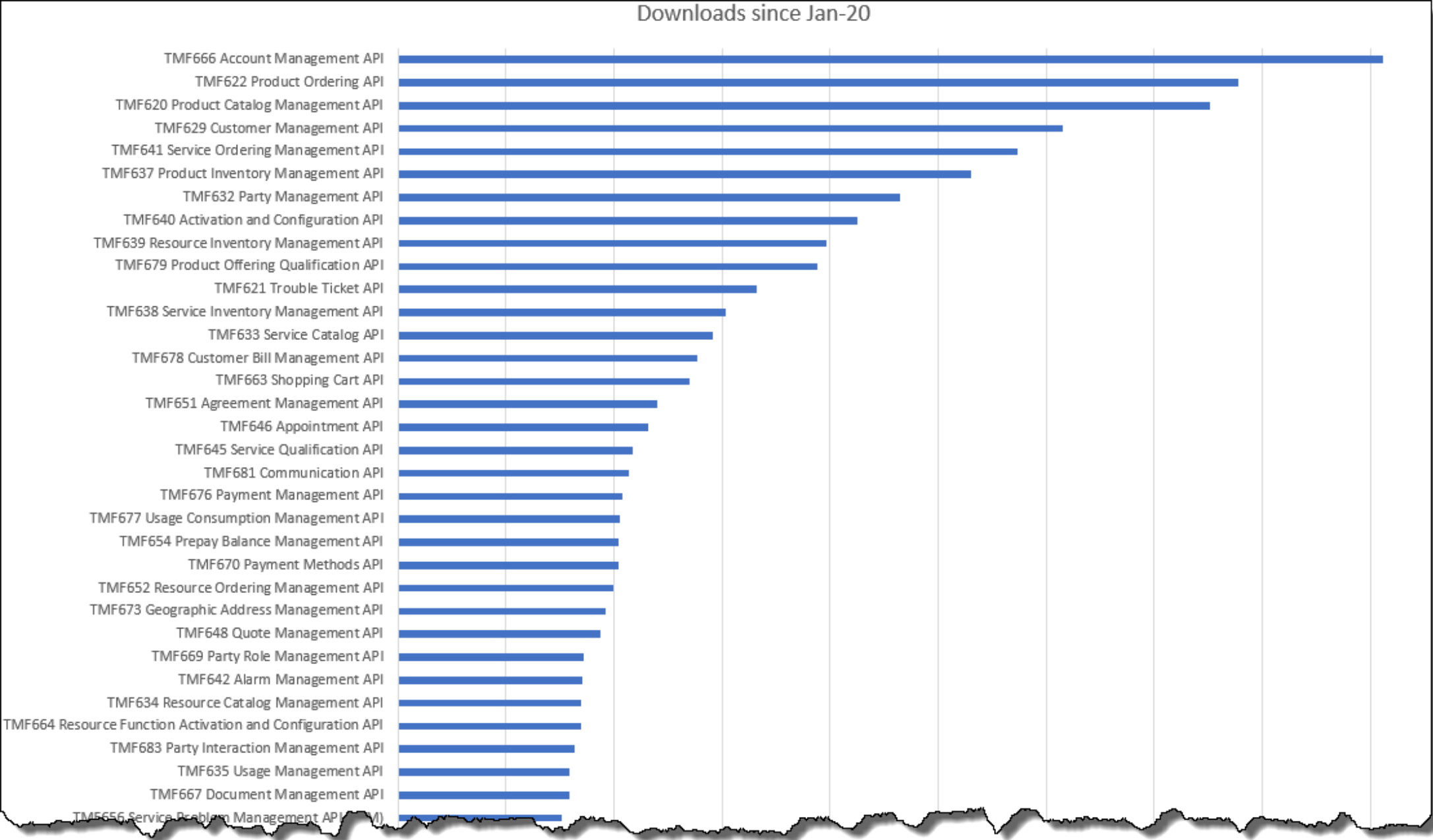
API downloads from the [Open API Table](#) and resource library

Each month we consistently have:

- Over 1,800 unique users
- From over 350 unique companies
- Downloading more than 10,000 API assets

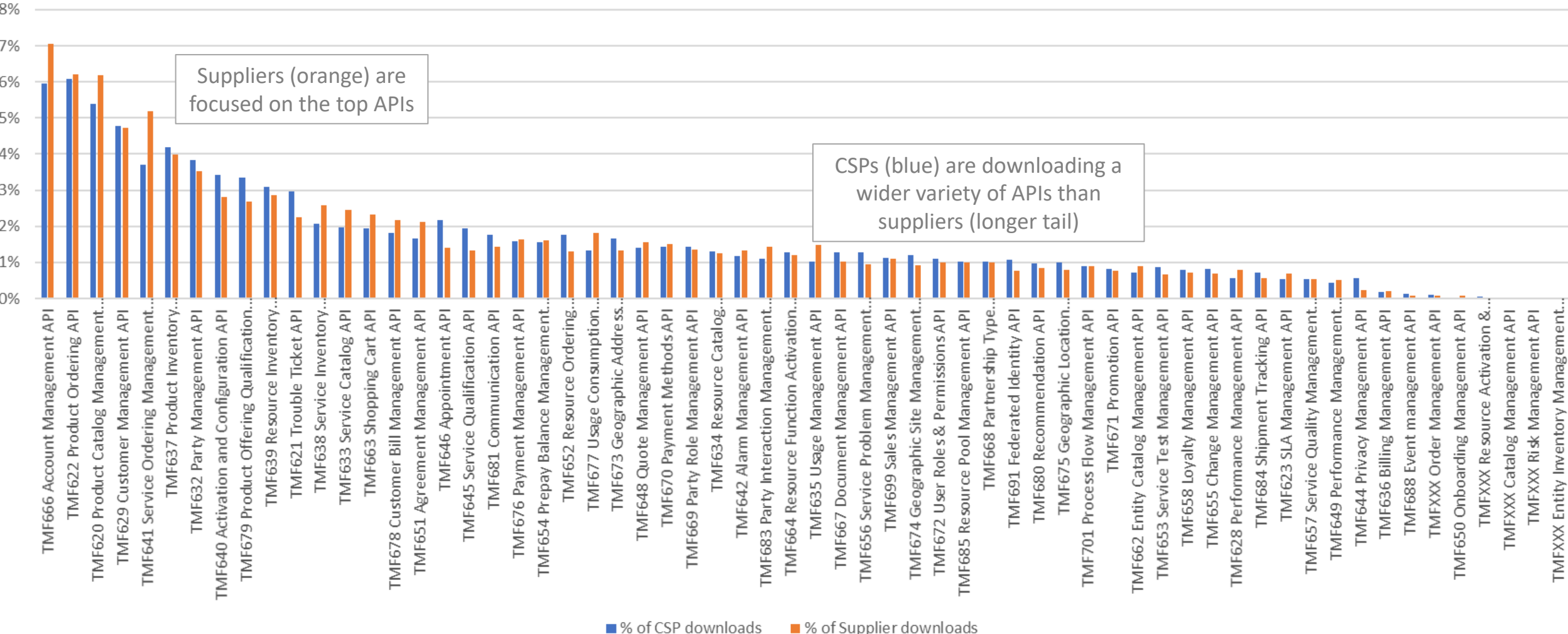


Most popular APIs



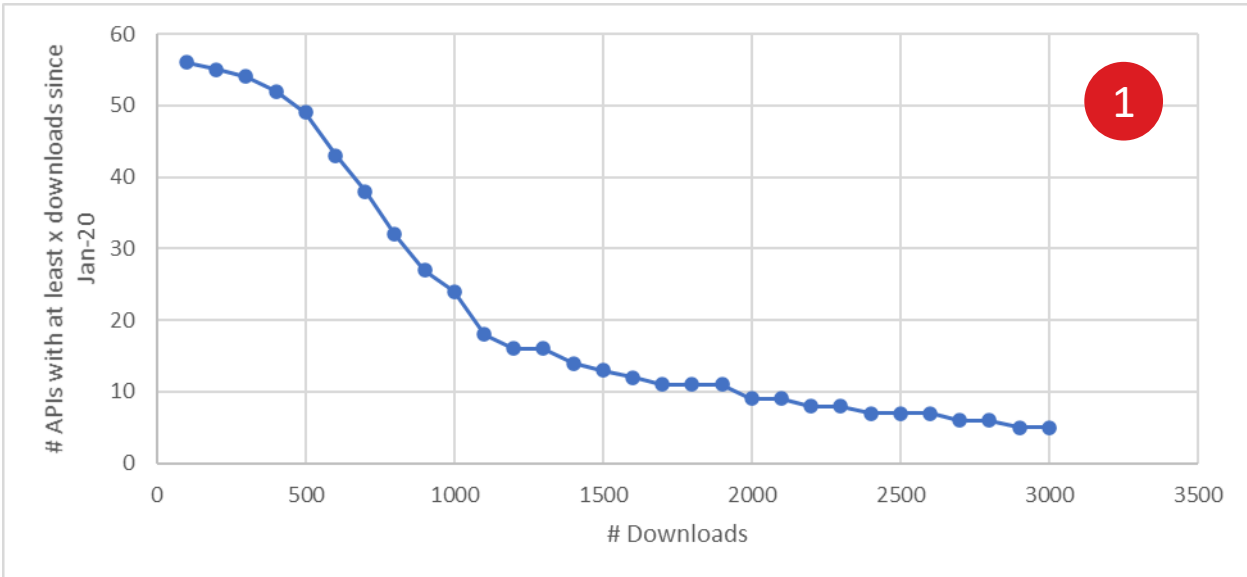
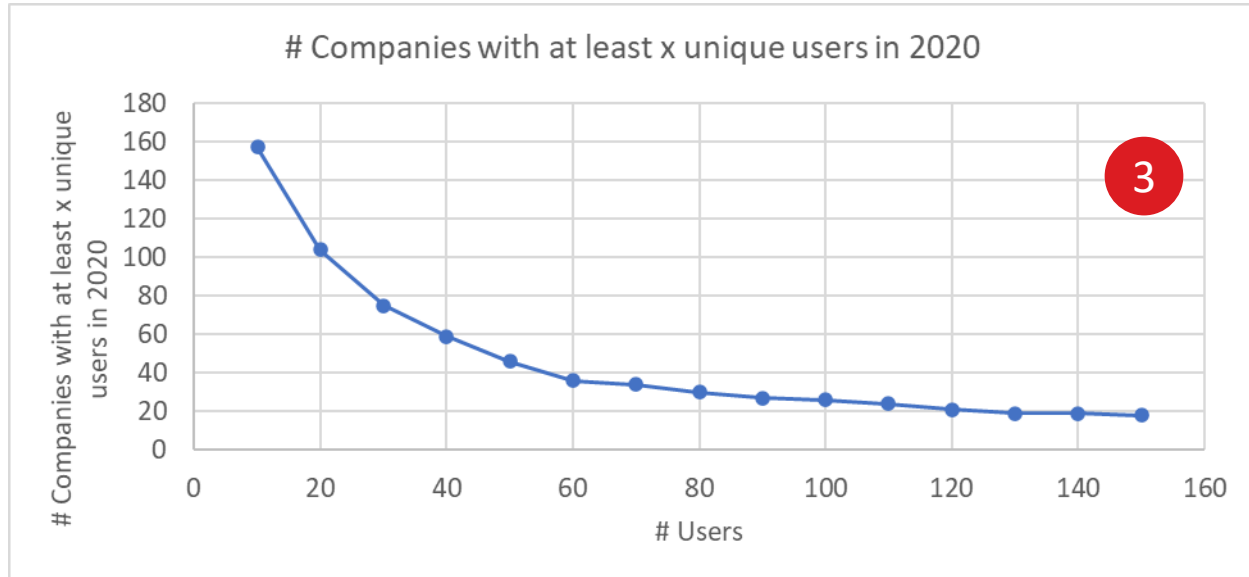
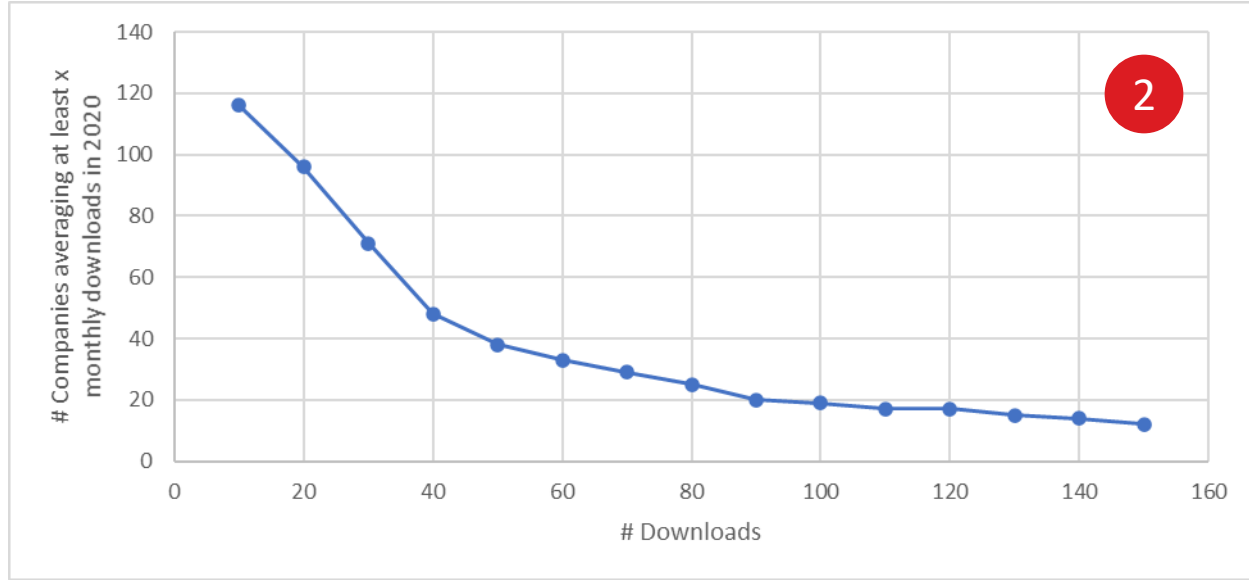
Most popular APIs by CSP & supplier

% of CSP and Supplier downloads since Jan-20



Long tails

1. 24 APIs have more than 1000 downloads since Jan 2020 (9 have more than 2000 downloads)
2. 38 companies are each averaging at least 50 downloads per month in 2020
3. 26 companies have each had at least 100 unique users downloading APIs in 2020



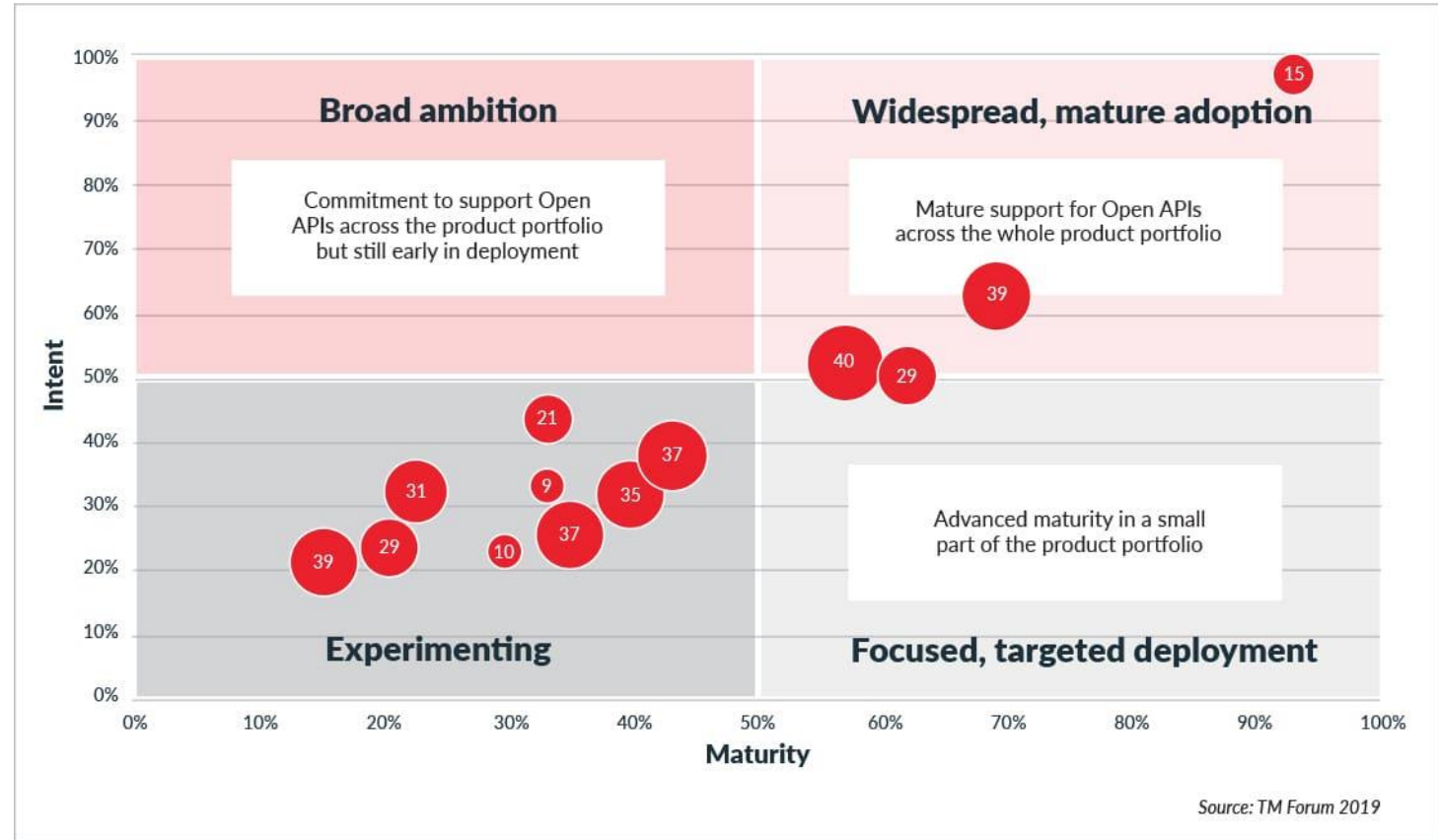
Terminology & Scoring Algorithms

Scoring Algorithm

Y axis: Intent

- Score **Intent** points for each **Relevant API**
- A **Relevant API** is one which is relevant to the respondent's product(s) / systems
- Score points for existing API conformance and near-term roadmap plan, fewer points for longer term plan...

Scores for each respondent are expressed as a percentage of the maximum possible score for all of that respondent's Relevant / Committed APIs



X axis: Maturity

- Score **Maturity** points for each **Committed API**
- A **Committed API** is one which the respondent already conforms with or has plans to conform with in the future
- Most points for certification (if available), fewer points for conformance against older versions of the API, fewer points for 'in development'

Response	Intent score	Maturity score
Latest version (N or N-1 Version) of this TM Forum API is certified in my commercial product today	4	10
Latest version (N or N-1 Version) of this TM Forum API is conformant but NOT certified in my commercial product	4	9
An Older version (N-2 or older) of this TM Forum API is certified in my commercial product today	4	7
An Older version (N-2 or older) of this TM Forum API is conformant but NOT certified in my commercial product	4	6
API will be TM Forum conformant / certified and available in my commercial product WITHIN 12 months	3	3
API will be TM Forum conformant / certified and is in the roadmap, but BEYOND 12 months	2	0
No plans for this API to be conformant or certified	0	0
This API is NOT relevant to my product	X	X

- Committed APIs are all Relevant APIs where the respondent has a roadmap to conform in the future (no matter what timescale)
- Maturity score is capped if certification is not available so that respondents can score maximum points for a “...**conformant but NOT certified**” response

- Terms used in the responses for the survey
 - Conformant:
 - There is full correspondence between architecture specification and implementation.
 - All specified features are implemented in accordance with the specification and there are no features implemented that are not covered by the specification.
 - Certified
 - There is full correspondence between architecture specification and implementation.
 - All specified features are implemented in accordance with the specification and there are no features implemented that are not covered by the specification.
 - This is been reviewed, passed and a certificate received from TM Forum
- Other Terms that are commonly used but not used in the survey
 - Alignment:
 - Some or all the features in the architecture specification are implemented in accordance with the specification. But some more features are implemented that are not in accordance with it.
 - This is not seen been able to directly interoperate and would need significant development to receive TM Forum certification
 - This is not used in the survey as this level is below the level we are working towards

- Latest version (N or N-1 Version) of this TM Forum API is certified in my commercial product / System today
 - Your implementation of the current or immediately previous version of the API have passed TM forum certification process
- Latest version (N or N-1 Version) of this TM Forum API is conformant but NOT certified in my commercial product / System
 - Your implementation of the current or immediately previous version of the API fully conforms to the TM Forum intent and CTks but not yet passed TM forum certification process
- An Older version (N-2 or older) of this TM Forum API is certified in my commercial product / System today
 - Your implementation of the older version (\geq two releases) of the API have passed TM forum certification process
- An Older version (N-2 or older) of this TM Forum API is conformant but NOT certified in my commercial product / System
 - Your implementation of the older version (\geq two releases) of the API fully conforms to the TM Forum intent and CTks but not yet passed TM forum certification process
- API will be TM Forum conformant / certified and available in my commercial product / System WITHIN 12 months
 - Within 12 months of this survey it is your intent to make this API either conform or be certified to the TM forum certification process
- API will be TM Forum conformant / certified and is in the roadmap, but BEYOND 12 months
 - Beyond 12 months of this survey it is your intent to make this API either fully conform or be certified to the TM forum certification Process
- No plans for this API to be conformant or certified
 - You have this API but have no plans to move it to fully conform or certify against the TM Forum certification process
- This API is NOT relevant to my product
 - This API is not in your portfolio