

# Reserved for CPE

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2026 ITQS – Technology  
compliance update

March 24, 2026

# 21st Annual EY International Tax Quantitative and Reporting Conference

Beyond the horizon – quantitative  
considerations for a changing tax world

March 23-24, 2026

The better the question. The better the answer. The better the world works.

The EY logo consists of the letters 'EY' in a bold, white, sans-serif font. Above the 'Y' is a yellow chevron shape pointing upwards and to the right.

Shape the future  
with confidence

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# CPE eligibility

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- We will launch at least three polls per CPE credit.
- Participants must attend the full session and participants must answer at least three polls per CPE credit to receive full credit.

# Welcome

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## Technology compliance update



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# Presenters

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# Topics

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- Discussion on artificial intelligence (AI) and its impact on tax departments.
- Overview of EY Catalyst for US Tax Compliance with a demonstration of the technology and its features.
- Overview of the EY Pillar Two and Global Anti-Base Erosion (GloBE) minimum tax technology solution (EY GloBE Engine) and a demonstration of its features.

# Objectives

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- Evaluate the capabilities and future landscape of AI while understanding the impact to tax departments.
- Analyze the benefits of comprehensive knowledge discovery and assessment for US international tax compliance, alongside a demonstration of the EY Catalyst US Tax Compliance enabler tool.
- Describe EY approach for compliance technology solutions related to Pillar Two and a demonstration of the improved functionalities of the EY GloBE Engine solution.

# 01

AI

# What is GenAI?

## Artificial intelligence (AI)

We can program machines to perform tasks currently performed by humans.

## Machine learning (ML)

We can teach machines to learn based on human feedback.

## Deep learning (DL)

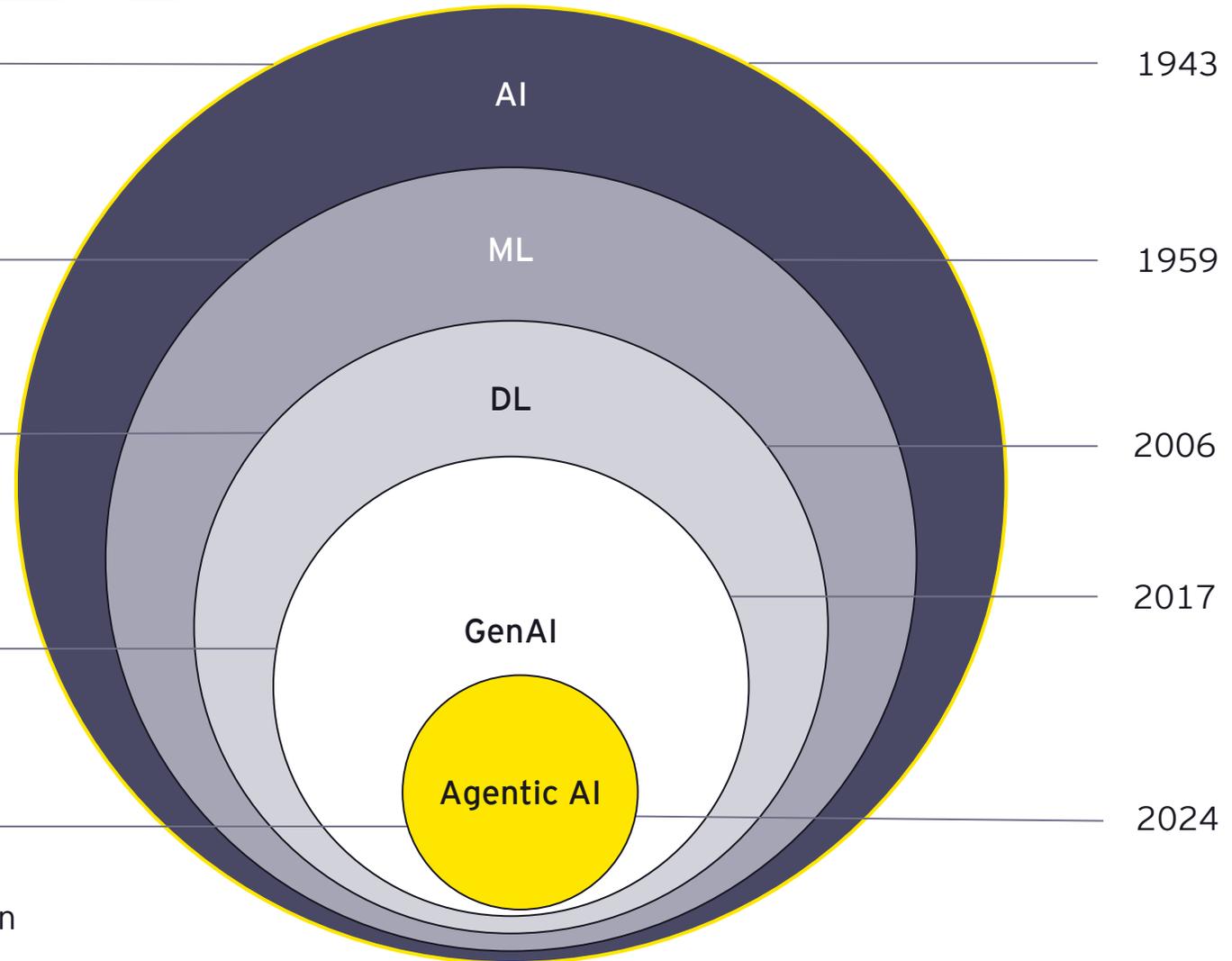
We can mimic the way the human brain works to create an element of perception (intuition, vision, sound, etc.).

## Generative AI (GenAI)

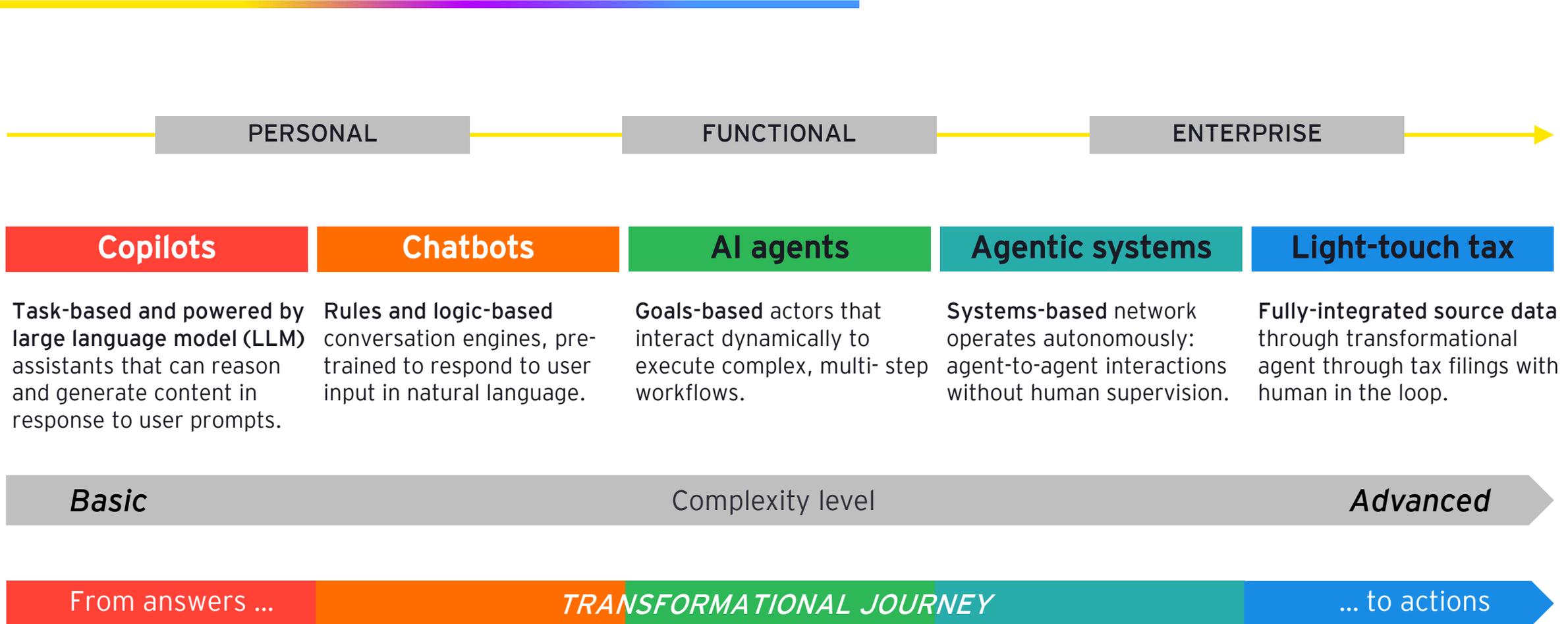
We can generate net new content based on historical content (e.g., text, visuals, etc.).

## Agentic AI

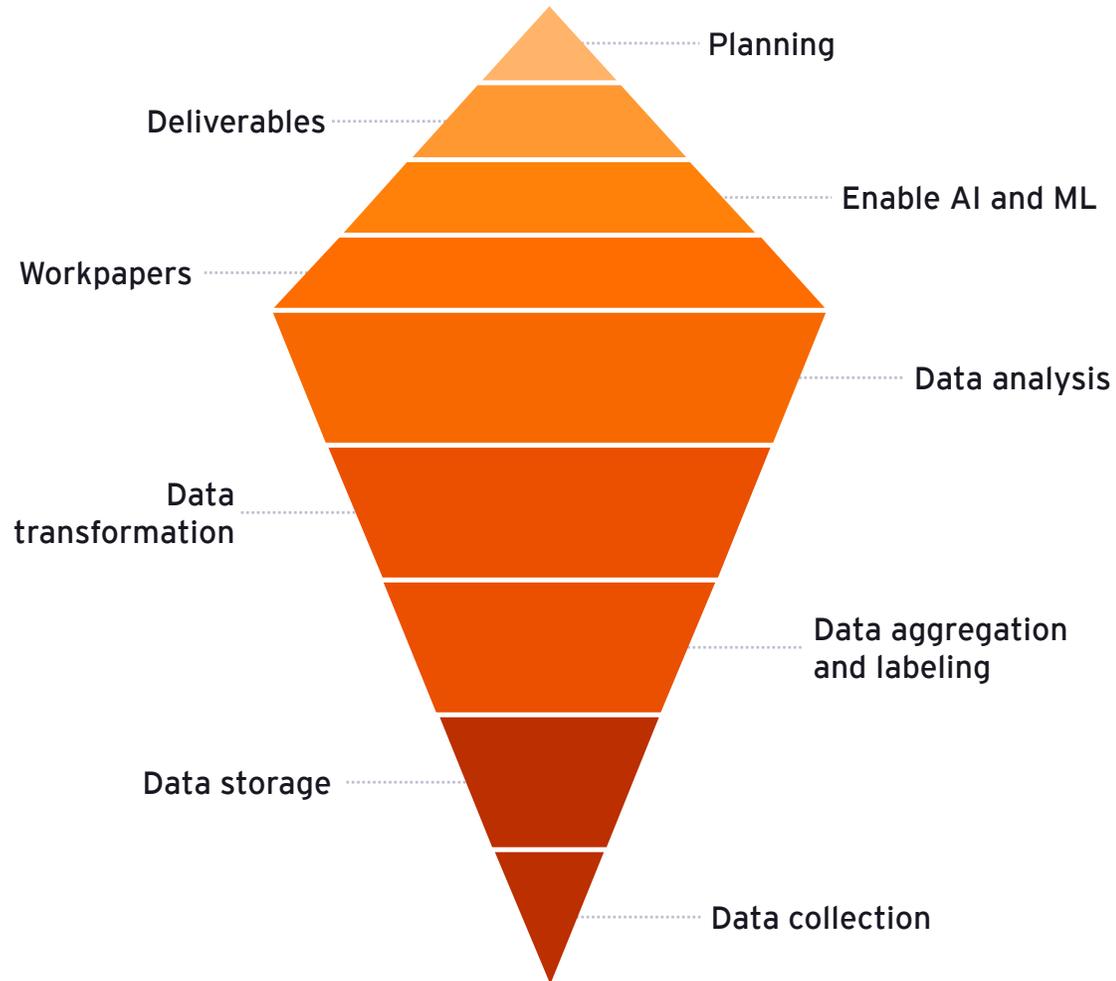
AI systems capable of making decisions and adapting to changing environments based on their experience without requiring explicit instructions.



# The AI evolution



# The role of data for tax



## Why data matters

- Proper data is foundational
- Compliance
- Strategic enabler
- AI-ready

# Polling 1

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Which challenge do you think AI can best help address in international tax management?

- A. Keeping up with changing regulations
- B. Reducing compliance costs
- C. Enhancing data accuracy and integrity
- D. Improving collaboration across jurisdictions

# 02

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## EY Catalyst

# EY Catalyst Tax Return Reviewer tools

## EY quality check annual tax return

- Assists the user with the review of corporate tax returns with our tax return reviewer tools.
- Diagnostic tools used to meticulously examine the top [X] entities on Forms 5471 and 8858 for comprehensive compliance analysis.
- With our proprietary analytics, drive insights around the iterative FDII, GILTI, Subpart F, Section 163(j), US FTC and BEAT\* calculations outcomes for tax impact reasonableness, including income allocation and expense allocation and apportionment results.

## EY insights strategy session

- Leverage our tools to drive a more impactful post-compliance debrief session with EY teams and stakeholders within the finance organization.
- Our tax profile workshop sessions also focus on leveraging EY Global Tax desk network and National Tax Department (NTD) who can quickly interpret and identify from each Tax Return Reviewer Tool insights that could assist/help your organization.

\* Foreign-derived intangible income (FDII) | Global intangible low taxed income (GILTI) | FTC = Foreign tax credit | Base erosion and anti-abuse tax (BEAT)

# Overview of EY Catalyst Tax Return Reviewer tools

We know the Tax Cuts and Jobs Act (TCJA) has led to more complex and voluminous US corporate income tax returns that are challenging and time-consuming to analyze and review. In the upcoming weeks, EY Catalyst will be offering a solution to assist a more efficient and higher quality tax return.

## How EY Catalyst can help?

- Presents tax return data in a columnar report and Power BI visual formats
- Prepares questions about your return to validate accuracy
- Incorporates analytics to give relativity data points
- Offers two-year flux analysis, highlighting year-over-year changes
- Drives tax compliance review and tax considerations methodology faster

### Spreadsheet-based reports



### Power BI visuals



## Primary use cases

- Tax compliance review – quality and speed
- Tax due diligence – insight acceleration
- Tax considerations/methodology – insight acceleration
- Tax controversy review – mimic a mock audit

## Value to you

- Condenses data across hundreds of pages and forms to a streamlined digestible format
- Identifies areas of potential issues to allow for more concentrated, value-add review
- Helps enabling simultaneous review of multiple schedules across multiple entities
- Provides data visualizations to depict trends and create a more interactive journey

**Increases the quality and speed of tax return review and identify more tax considerations/methodology insights faster!**

# EY Catalyst Tax Return Reviewer Library

## Form 1120<sup>1</sup>

This report allows you to compare up to two tax returns on a year-to-year basis or between files from the same year.

With built-in analytics, perform a detailed analysis of the data, allowing for a deeper exploration of information based on entities, schedules or specific line items.

**When to use:** This report should be used when the initial drafting of Form 1120 is complete.

## Forms 5471, 5472 and 8858 Reviewer

With these report you get built-in questions and cross-references that surface issues.

This report identifies key areas for a global tax professional to review in a US tax return that may be missed because of the complex and scattered information.

**When to use:** This report should be used when the initial drafting of Forms 8858, 5471 and/or 5472 is complete. Draft XML can be run with "tranches" of forms complete to accelerate reviews.

## Forms 8621 and 8865 Reviewers

With these reports you get built-in questions and cross-references that surface issues.

This report identifies key areas for a global tax professional to review in a US tax return that may be missed because of the complex and scattered information.

**When to use:** This report should be used when the initial drafting of Forms 8621 and/or 8865 is complete. Draft eXtensible Markup Language (XML) can be run with "tranches" of forms complete to accelerate reviews.

## GILTI US Shareholder Analyzer<sup>1</sup>

Am I paying GILTI tax because of US-level expense apportionment?

Am I paying US top-up tax because I have a low offshore rate?

How much is s904(b)(4) diluting my FTC claim?

Am I losing s250 deductions or GILTI FTCs?

This report will help you quickly figure it out.

**When to use:** This report should be used when the initial drafting of Forms 1118 is complete.

## GILTI CFC Analyzer<sup>1</sup>

With this report, you can understand the building blocks of the GILTI calculation at a CFC<sup>2</sup> level.

Tested income, QBAI,<sup>3</sup> specified interest, Subpart F income and taxed taxes are delineated and examined by legal entity in a columnar layout to expedite the review process.

Cross-references with Form 5471, Schedules I-1 and Q, Form 1118, Schedule D and Form 8992 also help to ensure missed reconciliations are identified.

**When to use:** This report should be used when the initial drafting of Forms 5471, 8992 and 1118 is complete.

## US FTC and FDII Analyzers<sup>1</sup>

These reports help you gain insights into the composition of your FTC profile and FDII deduction.

These reports display page 1, taxable income in a columnar format segmented by either source and character for FTC or FDII. It also helps to identify insightful questions using a built-in year-to-year flux and margin analytic.

The data points within a US tax return are used to create these reports to bring the FTC utilization and FDII deduction into a single frame.

**When to use:** This report should be used when the initial drafting of Forms 1120 pages 1-3, 8990, 8993 and 1118 is complete.

<sup>1</sup> Year-over-year comparison available | <sup>2</sup> Controlled foreign corporation (CFC) | <sup>3</sup> Qualified business asset investment (QBAI)

# EY Catalyst Tax Return Reviewer flat files

- Flat file tabs represents a specific schedule populated with raw data directly from the XML:
  - Columns align with the IRS forms for clear, line-by-line traceability.
  - Users can filter data to quickly isolate and review specific items.
- Currently, the EY Catalyst reports have five reports with the flat file tabs:
  - Form 1120 Reviewer
  - Form 5471 Reviewer
  - Form 8858 Reviewer
  - GILTI CFC Reviewer (Form 8992)
  - FTC Analyzer (Form 1118)

**5471 Page 1** The content presented is based on Client provided information and is for general information purposes and should not be construed, or relied upon as legal advice.

TaxYear:  
Run Date:

Unique Reference ID	Name	Entry	Reporting Currency	Name of person filing this return	Number, street, and room or suite no. (or P.O. box number if mail is not delivered to street address)	City or town
DPTSUPPLY1	COMPANY 21	1	IDR	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
E1112D020000	COMPANY 25	1	USD	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
E1154	COMPANY 30	1	USD	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
E1200DCanada1	COMPANY 32	1	CAD	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
E2102D109000	COMPANY 34	1	USD	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
E2103Dmexico1	COMPANY 37	1	MXN	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
E2105	COMPANY 39	1	BRL	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
E2108	COMPANY 41	1	MXN	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
E2165	COMPANY 43	1	USD	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
E2200	COMPANY 45 COMPANY 46	1	BRL	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
E2201	COMPANY 49	1	MXN	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
981110464	COMPANY 50	1	EUR	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte
E2161D151000	COMPANY 38 COMPANY 52	1	EUR	COMPANY 1	Address 1 Charlotte NC 2827	Charlotte

# Overview of EY Catalyst visualizations

Visualization	Description
Opportunity assist	This visualization helps identify potential planning ideas which are suitable based on certain logic tests imbedded.
Compliance	This visualization focuses on highlighting key data points related to current year compliance.
Transfer pricing flows	This visualization focuses on current transactions and transfer pricing analysis.
PTEP	This visualization summarizes previously taxed earnings and profit (PTEP) balances by entity or jurisdiction and PTEP category.
Section 987	This visualization focuses on summarizing Section 987 data by qualified business unit (QBU) to determine which ones may be under scope and impacted by this provision.
Data table	This visualization summarizes certain data points by entity or jurisdiction.

# Polling 2

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How do you review your company's tax return today?

- A. The PDF forms
- B. The XML
- C. Combination of PDF and XML
- D. Relying on your existing service provider

# 03

## EY Catalyst demonstration and features walk-through

# 04

## GloBE Engine

# Polling 3

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How is your organization tackling Pillar Two compliance?

- A. Outsourced with a service provider
- B. Have sufficient internal resources to prepare, review and file
- C. Combination of service provider and in-house resources
- D. Have not decided yet

# BEPS 2.0 timeline – to date



# Integrated, automated and transparent

## Data ingestion, management and cleansing

- EY GloBE Engine system and data architecture is designed to be agnostic, facilitating seamless integration with various systems, data sources, and formats such as APIs to systems, flat files (e.g., Excel), and manual data entry. The system is also capable of importing/exporting reports in a standardized format for use with other tax tools.
- Flexibility supports customized calculations based on specific data points, while also providing mechanisms to analyse the completeness and accuracy of the data inputs.
- Calculation logic in accordance with OECD and local law maintained in EY GloBE Rules Database.

## Reporting, provision and compliance

- EY GloBE Engine prepares GloBE information returns in XML format, helping you comply with local laws and regulations.
- Additionally, it furnishes data required for local tax returns, facilitating integration with tax reporting requirements.
- Furthermore, the solution offers support and outputs for both quarterly and annual provisions.

## Integrated calculations

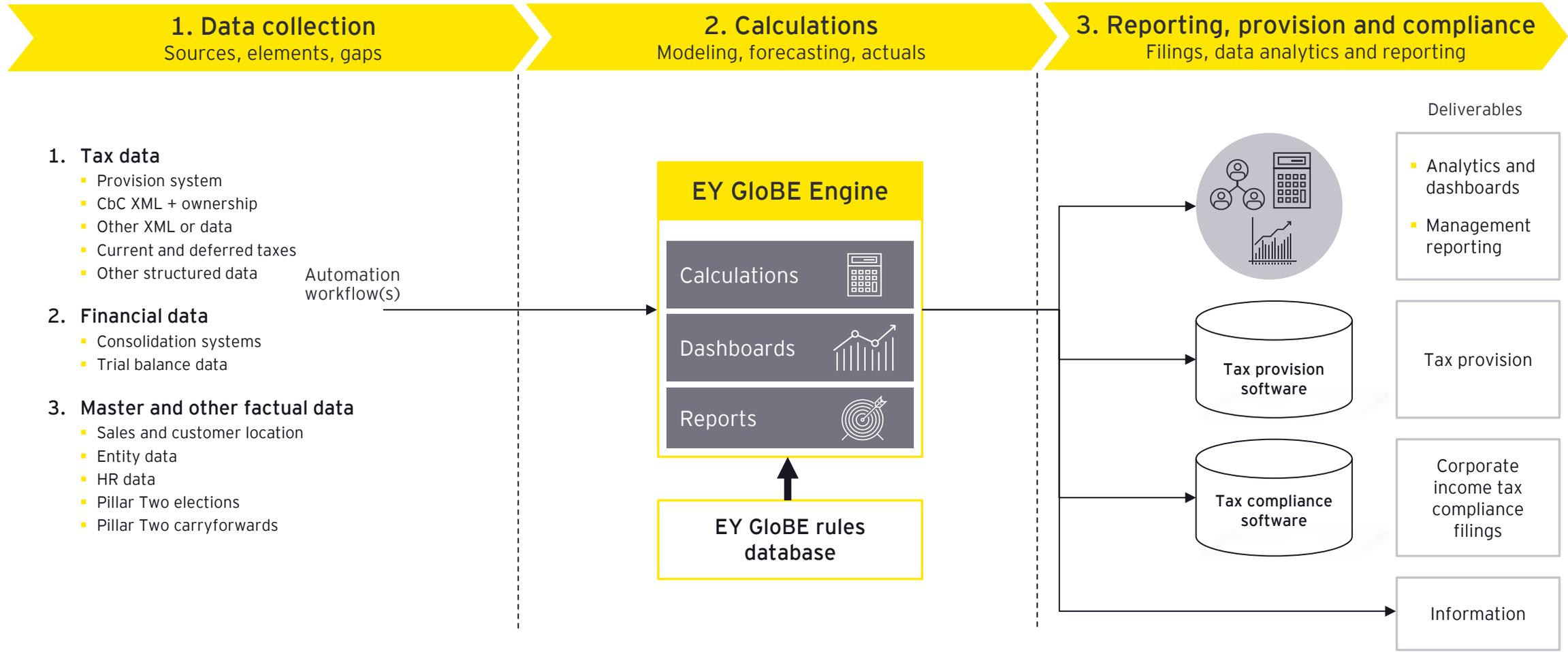
- EY GloBE Engine performs computations for safe harbor, QDMTT, IIR and UTPR\* calculations to discern any supplementary tax liabilities and their respective responsible parties.
- Calculations are in line with local law available for all major outbound/through bound jurisdictions with an IIR and/or “QDMTT safe harbor” jurisdictions.
- Furthermore, it facilitates modeling and forecasting activities, including the analysis of scenarios pertaining to structural modifications and diverse legislative frameworks.

## Analytics/dashboard

- EY GloBE Engine incorporates dashboards designed to facilitate identification of low-tax jurisdictions and entities subject to additional tax obligations, while also indicating transitional safe harbor coverage.
- Moreover, it emphasizes financial reporting insights tailored for stakeholders' comprehension and decision-making processes.
- Additionally, it generates operational reports that analyses responsibilities and track progress related to data collection efforts.

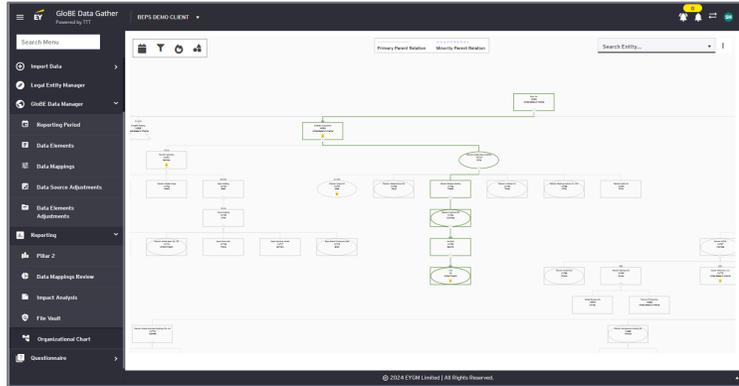
\* QDMTT = qualified domestic minimum top-up tax, IIR = income inclusion rule, UTPR = undertaxed payments rule

# EY GloBE process



# Advanced visualizations and reporting capabilities

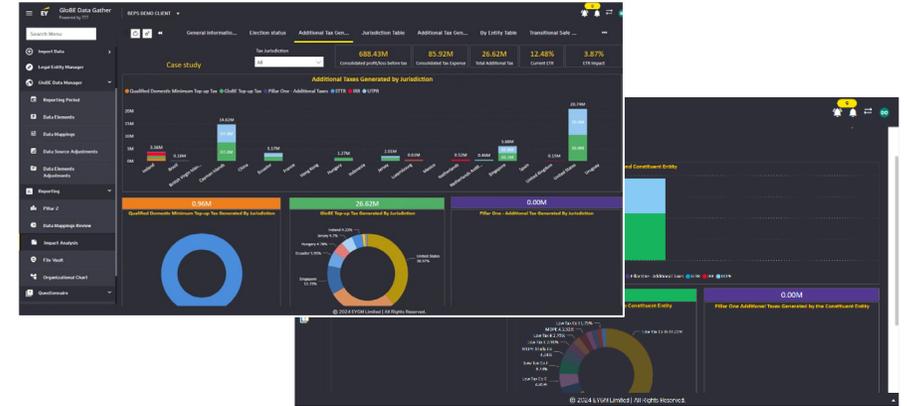
## Legal entity org chart views



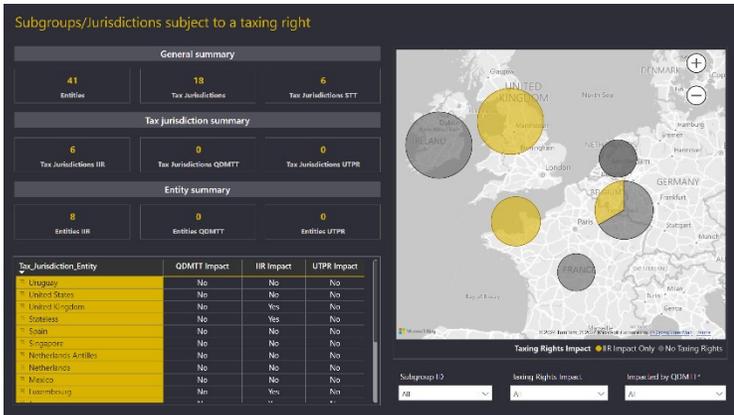
## GLOBE data mapping review

Company XYZ	Entity Name	Entity Type	Entity Status	Entity Address	Entity Tax Jurisdiction	Entity Effective Date	Entity End Date	Entity GLOBE Income	Entity GLOBE Tax	Entity GLOBE Tax Rate
Company XYZ	Entity 1	Entity 1	Entity 1	Entity 1	Entity 1	Entity 1	Entity 1	Entity 1	Entity 1	Entity 1
	Entity 2	Entity 2	Entity 2	Entity 2	Entity 2	Entity 2	Entity 2	Entity 2	Entity 2	Entity 2
	Entity 3	Entity 3	Entity 3	Entity 3	Entity 3	Entity 3	Entity 3	Entity 3	Entity 3	Entity 3
	Entity 4	Entity 4	Entity 4	Entity 4	Entity 4	Entity 4	Entity 4	Entity 4	Entity 4	Entity 4
	Entity 5	Entity 5	Entity 5	Entity 5	Entity 5	Entity 5	Entity 5	Entity 5	Entity 5	Entity 5
	Entity 6	Entity 6	Entity 6	Entity 6	Entity 6	Entity 6	Entity 6	Entity 6	Entity 6	Entity 6
	Entity 7	Entity 7	Entity 7	Entity 7	Entity 7	Entity 7	Entity 7	Entity 7	Entity 7	Entity 7
	Entity 8	Entity 8	Entity 8	Entity 8	Entity 8	Entity 8	Entity 8	Entity 8	Entity 8	Entity 8
	Entity 9	Entity 9	Entity 9	Entity 9	Entity 9	Entity 9	Entity 9	Entity 9	Entity 9	Entity 9
	Entity 10	Entity 10	Entity 10	Entity 10	Entity 10	Entity 10	Entity 10	Entity 10	Entity 10	Entity 10

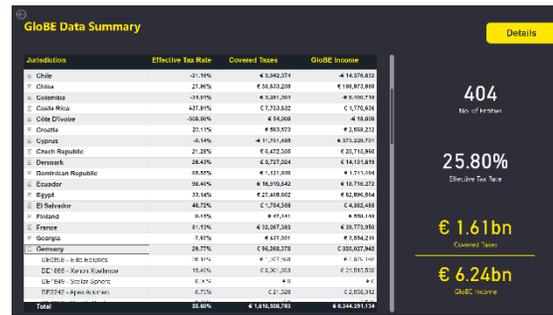
## Microsoft Power BI visualizations



## Taxing rights



## GLOBE data summary



## Subgroup determination report

Entity ID	Entity Name	Tax Jurisdiction	Investment Entity	Insurance Entity	Investment Entity Tax Transparency Election	Investment Entity Taxable Distribution Method Election	Separate aggregation of Investment entities	MOG	UTPR/MOPE	UTPR/MOPE Article 8.2	UTPR/MOPE Article 8.2	Investment entity override	Group Type	Group Entity ID	Subgroup ID
IFE	IFE	United Kingdom	No	No	No	No	No	Article 8.2	Article 8.2	Article 8.2	Article 8.2	Article 8.2	IFE	IFE	IFE-IFE
IEA_A	Scenario 1 - Entity A	Spain	No	No	No	No	No	No	No	No	No	No	IFE	IEA_A	IEA_A
IEA_B	Scenario 1 - Entity B	Australia	No	No	No	No	No	No	No	No	No	No	IFE	IEA_B	IEA_B
IEA_C	Scenario 1 - Entity C	United States	No	No	No	No	No	Yes	IEA_C	IEA_C	IEA_C	No	IFE	IEA_C	IEA_C
IEA_D	Scenario 1 - Entity D	Indonesia	No	No	No	No	No	Yes	IEA_D	IEA_D	IEA_D	No	IFE	IEA_D	IEA_D
IEA_E	Scenario 1 - Entity E	India	No	No	No	No	No	Yes	IEA_E	IEA_E	IEA_E	No	IFE	IEA_E	IEA_E
IEA_F	Scenario 1 - Entity F	Hong Kong	No	No	No	No	No	No	No	No	No	No	IFE	IEA_F	IEA_F
IEA_G	Scenario 1 - Entity G	Singapore	No	No	No	No	No	No	No	No	No	No	IFE	IEA_G	IEA_G
IEA_H	Scenario 1 - Entity H	Italy	No	No	No	No	No	No	No	No	No	No	IFE	IEA_H	IEA_H
IEA_I	Scenario 1 - Entity I	France	No	No	No	No	No	Yes	IEA_I	IEA_I	IEA_I	No	IFE	IEA_I	IEA_I
IEA_J	Scenario 1 - Entity J	Japan	No	No	No	No	No	Yes	IEA_J	IEA_J	IEA_J	No	IFE	IEA_J	IEA_J
IEA_K	Scenario 1 - Entity K	Spain	No	No	No	No	No	Yes	IEA_K	IEA_K	IEA_K	No	IFE	IEA_K	IEA_K
IEA_L	Scenario 1 - Entity L	France	No	No	No	No	No	Yes	IEA_L	IEA_L	IEA_L	No	IFE	IEA_L	IEA_L
IEA_M	Scenario 1 - Entity M	France	No	No	No	No	No	Yes	IEA_M	IEA_M	IEA_M	No	IFE	IEA_M	IEA_M
IEA_N	Scenario 1 - Entity N	Malta	No	No	No	No	No	Yes	IEA_N	IEA_N	IEA_N	No	IFE	IEA_N	IEA_N
IEA_O	Scenario 1 - Entity O	France	No	No	No	No	No	Yes	IEA_O	IEA_O	IEA_O	No	IFE	IEA_O	IEA_O
IEA_P	Scenario 1 - Entity P	Denmark	No	No	No	No	No	No	No	No	No	No	IFE	IEA_P	IEA_P
IEA_Q	Scenario 1 - Entity Q	Luxembourg	No	No	No	No	No	No	No	No	No	No	IFE	IEA_Q	IEA_Q
IEA_R	Scenario 1 - Entity R	France	No	No	No	No	No	Yes	IEA_R	IEA_R	IEA_R	No	IFE	IEA_R	IEA_R
IEA_S	Scenario 1 - Entity S	France	No	No	No	No	No	Yes	IEA_S	IEA_S	IEA_S	No	IFE	IEA_S	IEA_S
IEA_T	Scenario 1 - Entity T	France	No	No	No	No	No	Yes	IEA_T	IEA_T	IEA_T	No	IFE	IEA_T	IEA_T
IEA_U	Scenario 1 - Entity U	France	No	No	No	No	No	Yes	IEA_U	IEA_U	IEA_U	No	IFE	IEA_U	IEA_U
IEA_V	Scenario 1 - Entity V	France	No	No	No	No	No	Yes	IEA_V	IEA_V	IEA_V	No	IFE	IEA_V	IEA_V
IEA_W	Scenario 1 - Entity W	France	No	No	No	No	No	Yes	IEA_W	IEA_W	IEA_W	No	IFE	IEA_W	IEA_W
IEA_X	Scenario 1 - Entity X	France	No	No	No	No	No	Yes	IEA_X	IEA_X	IEA_X	No	IFE	IEA_X	IEA_X
IEA_Y	Scenario 1 - Entity Y	France	No	No	No	No	No	Yes	IEA_Y	IEA_Y	IEA_Y	No	IFE	IEA_Y	IEA_Y
IEA_Z	Scenario 1 - Entity Z	France	No	No	No	No	No	Yes	IEA_Z	IEA_Z	IEA_Z	No	IFE	IEA_Z	IEA_Z

# GIR and other filing requirements

## GloBE Information Return (GIR)

General section – 1	Jurisdictional sections – 2 and 3	
<ul style="list-style-type: none"> <li>General information</li> <li>Filing constituent entity (CE)</li> <li>Corporate structure</li> <li>High-level overview of the application of the GloBE Rules in every jurisdiction</li> </ul>	Safe harbors and exclusions that apply <span style="background-color: yellow; padding: 2px 5px;"><b>OR</b></span>	Detailed GloBE and QDMTT computations (i.e., effective tax rate (ETR), top-up tax (TuT) and TuT allocation)
Available to all jurisdictions	Available to jurisdictions with taxing rights and the filing entity	

## Local country reporting

1. Registrations and notifications
2. Statutory provision and tax footnote
3. Estimated TuT payments
4. QDMTT
  - No transitional CbCR safe harbor (TSH) applies = full reporting
  - TSH applies = simplified zero-liability reporting
5. GIR
  1. Intermediate parent entity (IPE) location – primary filing
  2. GIR (or similar) – other locations

# Polling 4

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Which of these best describes your organization's ability to produce the GIR?

- A. Not yet analyzed
- B. Analysis performed and gaps identified
- C. Analysis performed, data sources identified, and manual procedures designed
- D. Retrieval of data points for GIR (nearly) fully automated

# 05

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## EY GloBE Engine demonstration and features walk-through

# Key takeaways

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- Gain insights into the capabilities of AI and discover practical applications through real-world use cases.
- Awareness of the applications and potential advantages of utilizing EY Catalyst analyzers for in-depth knowledge discovery in the realm of US tax compliance.
- Enhanced understanding of the important role that technology applications play in effectively managing Pillar Two compliance requirements.
- Increased knowledge of the features and applications of the EY GloBE Engine in fulfilling Pillar Two compliance obligations.

# Thank you and questions

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