



CIMM TAXI initiative

Trackable Asset Cross-Platform Identification

M&E sector rollout executive briefing
April 2013



Executive summary

What is TAXI?	<p>Trackable Asset Cross-Platform Identification</p> <ul style="list-style-type: none">▶ An industry initiative to accelerate video asset identification and trackability standards across the M&E supply chain.▶ Designed to spark widespread adoption of existing open-standard asset registries (EIDR and Ad-ID) for professional video content and advertising.
Why should it matter to you?	<p>More than \$2 billion annually in M&E sector video content and advertising revenue upside</p> <ul style="list-style-type: none">▶ TAXI enables increased speed, transparency and accountability in media measurement, resulting in efficient markets and higher overall spend.▶ TAXI makes it simpler to deploy desirable “applications” that will improve many aspects of the M&E sector content and advertising experience, and reduce friction within and between M&E supply chain companies. <p>More than \$500 million annually in M&E sector cost savings</p> <ul style="list-style-type: none">▶ TAXI helps the industry reduce costs associated with numerous time-consuming, low-value manual activities around asset-related data collection, aggregation and mapping. TAXI also helps reduce errors.▶ TAXI enables media workflow automation by simplifying and standardizing communications within and between M&E entities. <p>Less than \$500 million in one-time adoption costs across the M&E sector</p>
How do we know this will work?	<p>28 companies across the M&E content and advertising supply chain demonstrated how to make TAXI both operationally and economically feasible</p> <ul style="list-style-type: none">▶ Envisioned M&E supply chain benefits enabled or accelerated by TAXI during a six-month feasibility study.▶ Evaluated how TAXI can be implemented into existing workflows through five separate M&E supply chain proofs of concept.
What do you need to do?	<p>Register, operationalize and measure to become “TAXI Compliant” by December 2014</p> <ul style="list-style-type: none">▶ Begin registering all newly-created video assets with the EIDR and Ad-ID registries.▶ Operationalize ID flow-through – from video post-production through internal and external video asset distribution points for all new programming and advertising video assets.▶ Integrate TAXI in how you measure and report video asset viewing activity within all your metering, reporting and analytics platforms.

Executive summary

Why TAXI matters to the M&E supply chain

TAXI has the potential to enable or accelerate an estimated

US\$2.5 billion *or more* in annual economic benefit

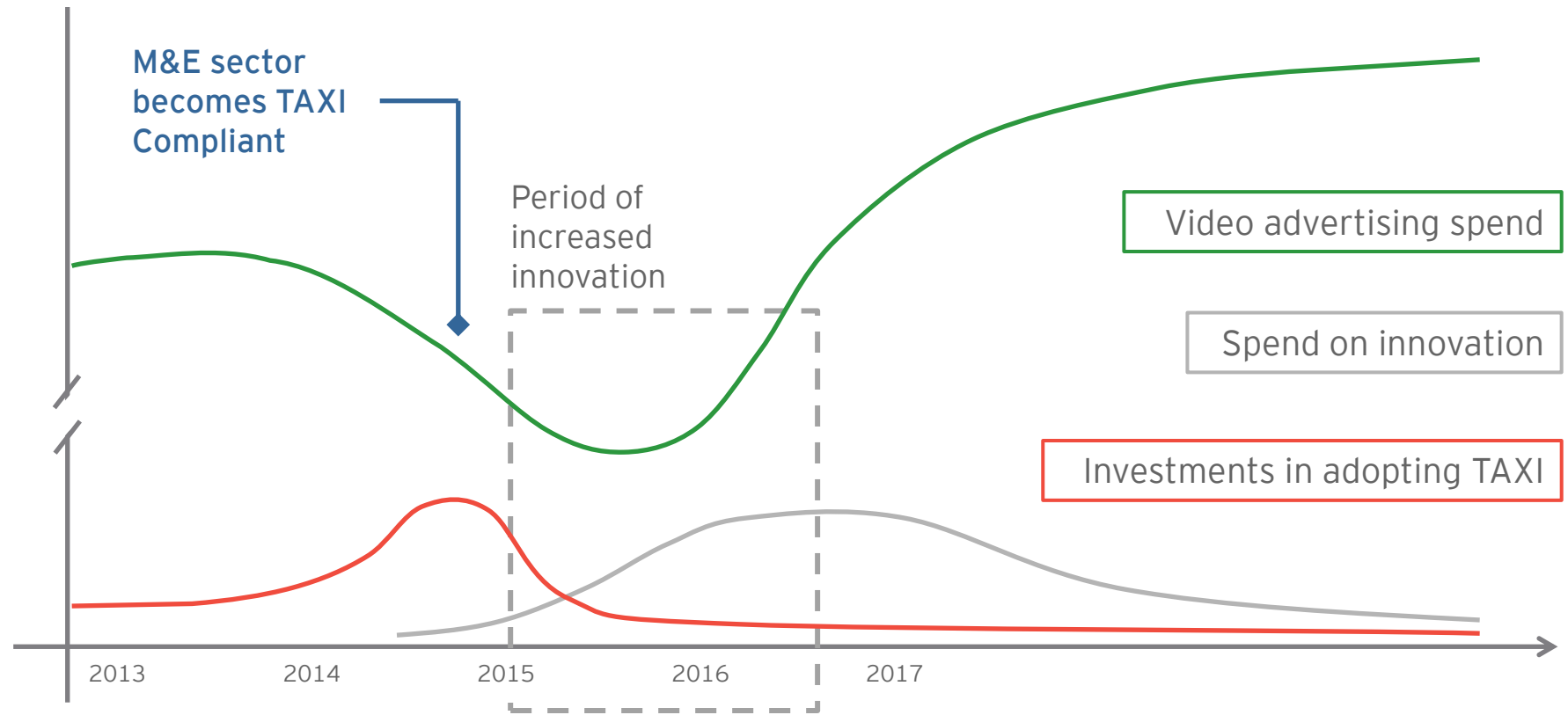
within the content and advertising supply chain once adopted across the M&E sector.

Video ad spend motivated by better measurement:

- ▶ 2% to 3% increase in ad volume (> US\$1.5 billion)
- ▶ 1% to 2% price premium (> US\$500 million)

Operational cost savings enabled through workflow automation:

- ▶ More than US\$500 million across the M&E supply chain



Executive summary

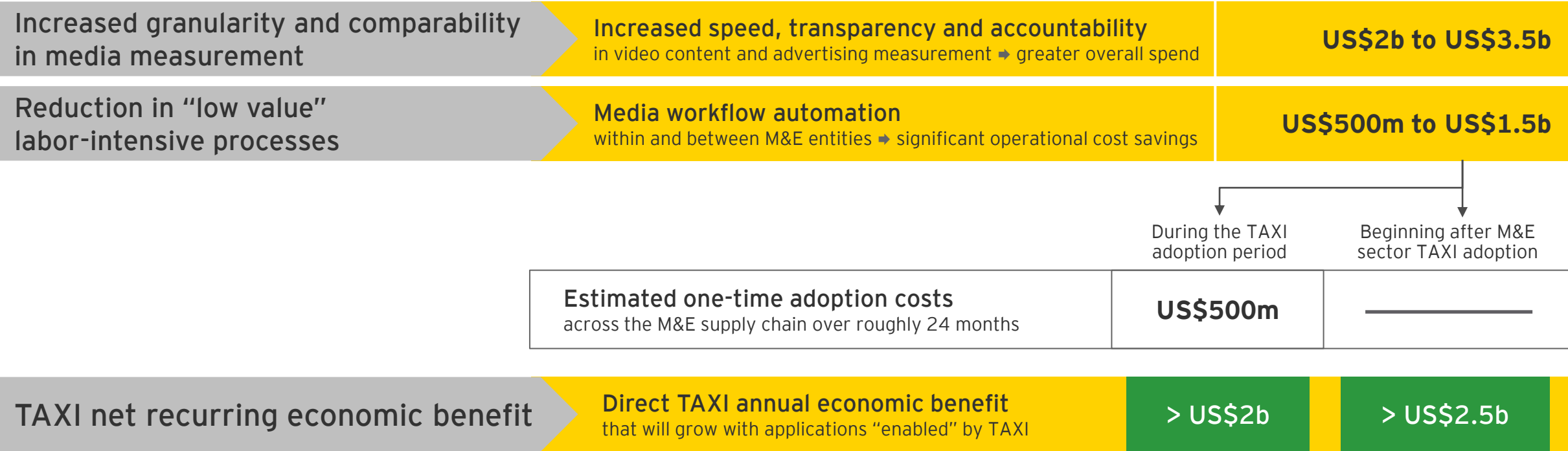
Top-line economic benefits and investment requirements

TAXI has the potential to enable or accelerate an estimated

US\$2.5 billion *or more* in annual economic benefit

within the content and advertising supply chain once adopted across the M&E sector.

- ▶ These year-over-year benefits will increase over time as the industry deploys any number of innovative “applications” that are simpler to implement and operate because of TAXI.



Executive summary

What needs to be done: Become “TAXI Compliant” by December 2014

1

Register video assets with EIDR and Ad-ID registries

- ▶ Begin registering all new content and advertising assets. EIDR and Ad-ID have made registration simple and cost-efficient.
- ▶ **Coordinate with vendors** to embed registry communications within asset transcoding, management and storage systems.

2

Operationalize asset and ID flow-through

- ▶ Support your organization in **driving ratification of ID-to-asset binding technology standards.**
- ▶ **Operationalize digital and on-demand video asset ID flow-through.** File-based workflows will be easier to adapt.
- ▶ **Explore technology-enabled methods** to embed IDs within streaming broadcast video assets from post-production through distribution, consumption and measurement.

3

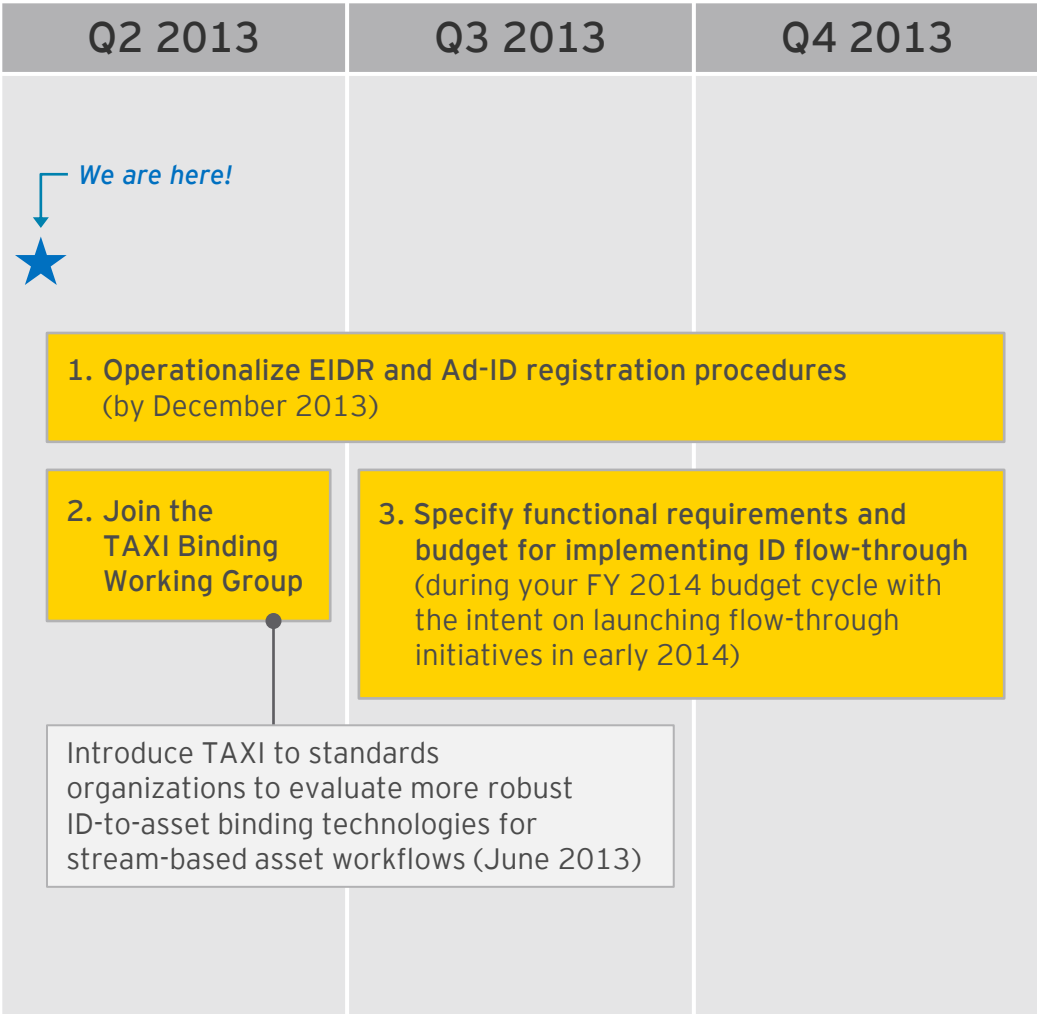
Embed TAXI in all media measurement and reporting

- ▶ **Make it a requirement** that all internal and third-party measurement use TAXI as a primary key.
- ▶ **Drive ad delivery and content monetization business model transformation** in ways not previously enabled before TAXI.

Executive summary

Immediate next steps for 2013

1. Begin registering video assets with the EIDR or Ad-ID registries:
 - a) Establish metadata standards for your organization (Q2 2013).
 - b) Develop registration procedures and protocols (Q3 2013).
 - c) Automate TAXI registration within your media asset management workflows (Q4 2013).
2. Commit to participation with standards organizations to develop scalable, industry-wide ID-to-asset binding technology specifications:
 - a) Identify and assign one or more qualified broadcast engineers to represent your company (Q2 2013).
 - b) Provide sufficient time and economic support to these engineers so that they are able to drive outcomes through an industry working group (beginning Q2 2013).
3. Specify functional requirements and budget for implementing ID flow-through (Q4 2013).



TAXI: a deeper view

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What is TAXI?

Trackable Asset Cross-Platform Identification

TAXI is about identifying entertainment and advertising assets across distribution platforms and establishing standards for multi-channel asset tracking.



- ▶ Like a UPC for all video programming and advertising assets
- ▶ An initiative to **accelerate** existing video asset identification standards: EIDR and Ad-ID
- ▶ Establishes cross-sector protocols for **video asset registration**, ID flow-through and transaction measurement and reporting
- ▶ A foundation layer for many critical content and advertising “applications”

What is TAXI?

Trackable Asset Cross-Platform Identification



EIDR

- ▶ **Founded by:** MovieLabs, CableLabs, Comcast, Rovi and others.
- ▶ **Asset types covered:** Audio-visual assets, which can be both physical and digital video objects, that are part of the movie and television supply chain.*
- ▶ **Construct:** A digital object identifier (DOI) based opaque ID designed to be unique for each registered asset.
- ▶ **EIDR adoption:** Launched October 2010 and has since developed strong partnership commitments from all six major studios and cable service providers covering 80% of US cable subscribers. The registry is projected to include close to one million film or television titles by the end of 2013.

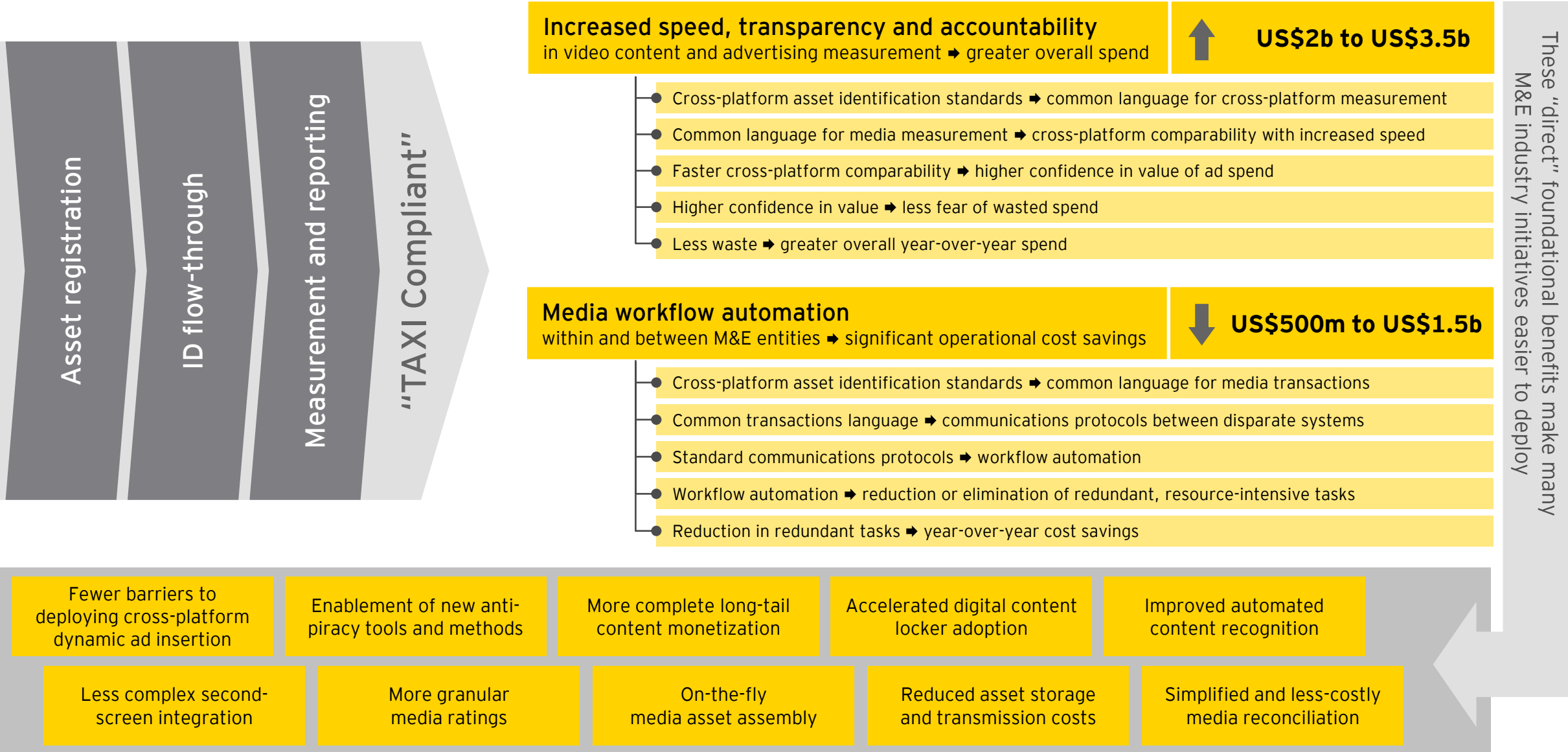
Ad-ID

- ▶ **Founded by:** The 4A's and the ANA.
- ▶ **Asset types covered:** Advertising assets (print, video, digital, voice).*
- ▶ **Construct:** Specified characters to represent advertiser prefix plus additional characters to represent each unique advertising asset. An additional suffix-digit is used to designate assets in SD or HD quality.
- ▶ **Ad-ID adoption:** Approximately one-third (750) of US national advertisers are using Ad-ID.

* While these registry scopes include asset types beyond video, TAXI's scope has thus far been limited to video distributed through linear, digital and mobile distribution.

Why should TAXI matter to you?

TAXI will enable US\$2.5b+ in annual economic value



Why should TAXI matter to you?

Increased speed, transparency and accountability → greater overall spend

Hypothesis: Difficulties tracking assets across a fragmented web of distribution points constrain growth in an increasingly complex ecosystem.

1.

M&E companies repeatedly assert that comparable, cross-platform media performance data would remove a significant barrier to growth in digital ad buying.

►

Brands also spend less than they might otherwise on traditional platforms because they know big dollars are wasted (a la John Wanamaker's "50%" adage).

2.

One indication of how transparency and accountability promote increased trade is IDC's growth estimates for transparent digital ad marketplaces. IDC asserts that greater ad effectiveness – and therefore campaign efficiency – will drive 71% CAGR in ad spending through open RTB marketplaces.¹

►

Publishers reported **nearly 100% median display ad price increases** when using more transparent advertising (RTB) trading exchanges vs. opaque ad networks.

► Agency executives reported **a minimum of 20% (and as much as a 150%) improvement in ad effectiveness**, which increased campaign efficiency and improved ROI.

¹ "Real-Time Bidding in the United States and Western Europe, 2005-10," IDC, October 2011
info.pubmatic.com/rs/pubmatic/images/IDC_Real-Time%20Bidding_US_Western%20Europe_Oct2011.pdf

How does TAXI address this hypothesis? TAXI establishes a “primary key” for transaction logging and measurement. TAXI makes it both faster and easier to get a complete and accurate measurement picture across disparate data sources.

TAXI eliminates guesswork in merging and comparing data from internal and a variety of external measurement sources. The time required between media consumption and data analysis is therefore compressed, and visibility into programming and advertising consumption is increased.

►

“Are the ‘Olympics’ a sporting event? And how do you find all the naming variations for ‘Two and a Half Men’ ... or is it ‘2½ Men’?” (*Janice Finkel-Greene, Mediabrands EVP of Buying Analytics*).

►

“As the tail of viewing gets longer and fatter, we have to have a system of identifying all content regardless of where and when it is consumed. Only when we have this will we see the type of growth that digital deserves.” (*Charles Kennedy, ABC Television President of Research*).

TAXI simplifies and accelerates data aggregation and analysis, which improves transparency:

A

Marries transaction data from disparate sources across all distribution points

B

Reduces errors previously caused by manually “mapping” disparate names for the same asset

Asset ID (TAXI)	MSMT	Platform	House Asset Name
10.5240/1E32-E87D-0E51-BFED-A37D-R	Kantar	Linear TV	Rookie Blue
10.5240/1E32-E87D-0E51-BFED-A37D-R	Rentrak	Linear TV	Rookie Blue 307
10.5240/1E32-E87D-0E51-BFED-A37D-R	Rentrak	VOD	Rookie Blue Season 3 Ep 07: Leap of Faith - 07/19/12

Asset ID (TAXI)	House Asset Name	Length	Air Date	Start Time	Kantar - Live	Rentrak - Live
JJCC0305H	Clean & Clear Advantage	:30	7/23/2012	9:16:26 PM	1.58%	
			7/25/2012	8:58:47 PM	0.88%	
			8/6/2012	8:17:00 PM	1.92%	
			8/8/2012	9:27:17 PM	1.53%	
			8/11/2012	8:36:56 PM	1.09%	
	JOHNSON & JOHNSON; CLEAN & CLEAR	:30	7/23/2012	9:16:21 PM		3.72%
JJDM0097000H	Aveeno Daily Moisturizing	:15	7/23/2012	8:30:41 PM	2.79%	
			7/24/2012	11:40:35 AM	1.19%	
				2:46:20 PM	1.15%	
			7/25/2012	8:22:19 PM	2.12%	
			7/26/2012	9:34:14 PM	2.77%	
			7/27/2012	1:10:48 PM	2.54%	
			8/6/2012	11:52:41 AM	1.25%	
	JOHNSON & JOHNSON; AVEENO POSITI	:15	7/23/2012	8:30:36 PM		3.95%

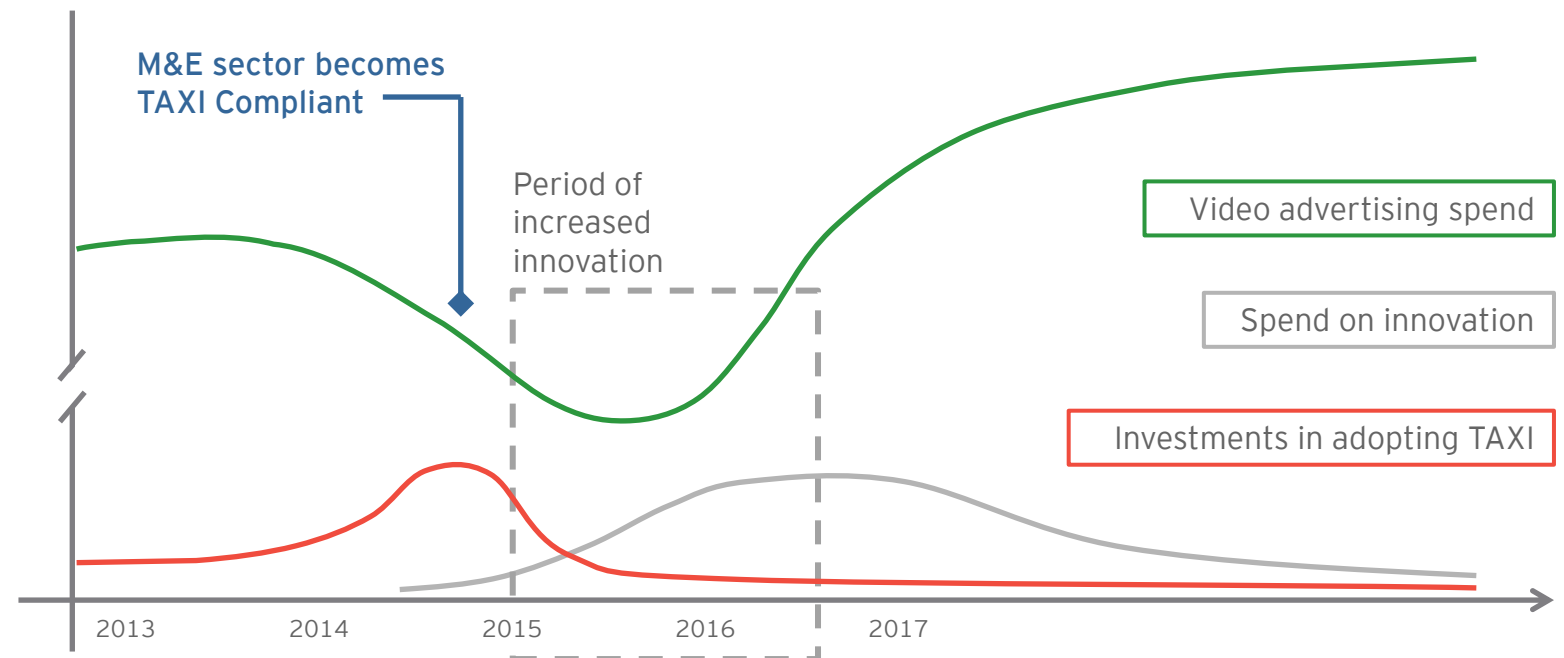
Why should TAXI matter to you?

Increased speed, transparency and accountability → greater overall spend

What are the results of speed, transparency and accountability?

- 1. Comparability:** TAXI enables media networks to more easily value equivalent inventory across distribution platforms.
 - ▶ Expands premium inventory as spots become exchangeable.
 - ▶ Creates the opportunity to establish trade rules for cross-platform make-goods and ADUs.
- 2. Confidence:** TAXI reduces gaps in measuring media asset performance.
 - ▶ Fewer unknowns = fewer wasted impressions.
 - ▶ A dollar spent will produce closer to a dollar of benefit.

Greater overall marketplace spend. Ad spend may initially decline as advertisers pull back from wasted inventory. But as measurement improves, so will ad marketplace innovation, which will create the visibility needed to increase ROI, and thus, overall ad marketplace spend.



TAXI impact: \$2 billion to \$3.5 billion more in annual US video ad spend

On top of \$70 billion in US video ad spend, PoC participants projected that existing advertisers will spend more, and a small number of new entrants will spend on the long-tail for the first time when the industry can rapidly provide comparable cross-platform ad transaction metrics.

- ▶ 2% to 3% increase in ad volume when fast, comparable metrics make it easier to evaluate ad spend ROI: **\$1.4 billion to \$2.1 billion annually**
- ▶ 1% to 2% price premium when sellers can demonstrate a higher value attributable to every impression: **\$700 million to \$1.4 billion annually**

Why should TAXI matter to you?

Media workflow automation drives enormous operational efficiency → lower costs

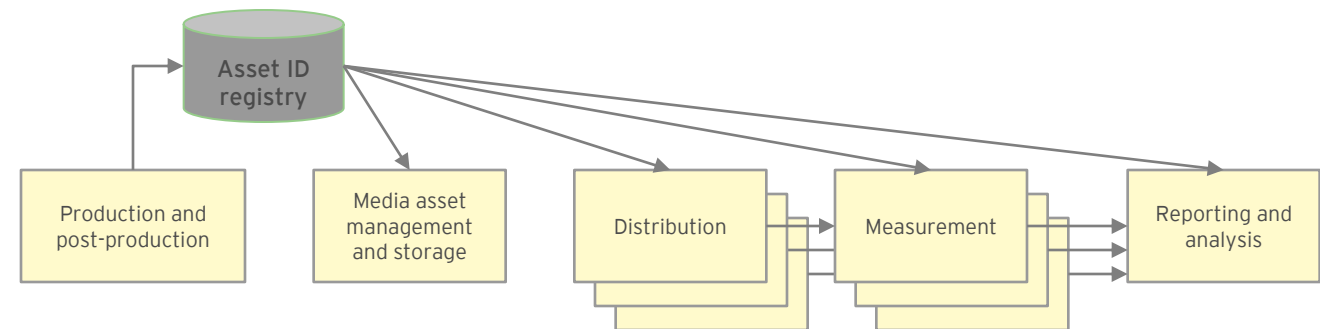
Hypothesis: Core media operations costs will drop when uniquely identified assets and metadata can be automatically passed between systems.

1. Duplicative, manual data entry steps not only add labor costs to the supply chain, but also result in errors that directly impact content monetization.
 - ▶ The ANA asserts that “the supply chain is unproductive and messy because much of it is mired in old, analog-based processes. ... The lost productivity in time, rework and errors costs the industry **\$1 billion to \$3 billion annually**.” (Bob Liodice, ANA President and Chief Executive Officer)
2. One aspect of this waste is the low-value time and effort associated with mapping and reformatting data from one source to another.
 - ▶ One large agency estimates that 200 of its digital media planners spend 50% of their time sourcing, aggregating and reformatting ad transaction data. That equates to roughly **US\$10 million in digital agency fees** spent on these low-value tasks, rather than on higher-value analysis and digital planning activities. Extrapolated across the \$70 billion US video advertising marketplace, this one example of waste costs advertisers **\$124 million annually**.

How does TAXI address this hypothesis? TAXI’s open-standard ID enables M&E technology providers to automate workflow between production, asset management, storage, distribution and measurement hardware and software.

TAXI will enable system-driven automation by creating a layer of data compatibility between production and post-production systems, and downstream asset management and storage, distribution, transmission and measurement technologies. TAXI will create a bridge for the exchange of asset-related information across the supply chain.

- ▶ TAXI enables “key once, use many” when systems automatically transfer descriptive metadata to and from registries, thus reducing cycle time and errors currently associated with duplicative manual data entry.
- ▶ The TAXI-enabled supply chain of the future will include automated aggregation and normalization of transaction data from disparate sources, using EIDR or Ad-ID as the primary keys.
- ▶ Data flow-through within a given entity’s operations and between supply chain participants will be accelerated while error rates will decline.

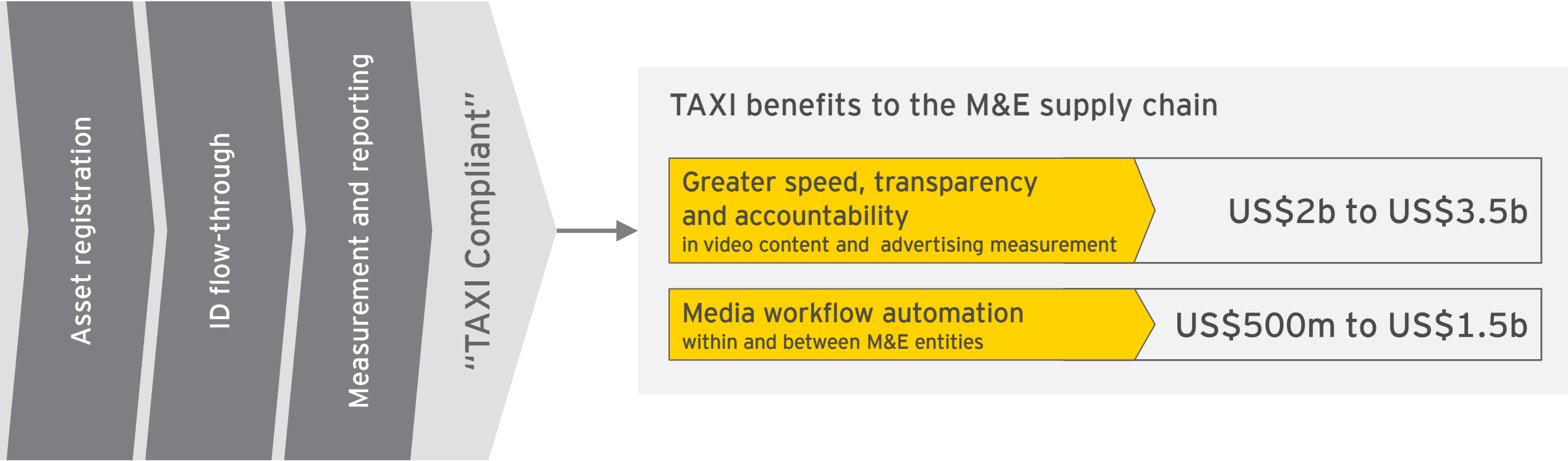


TAXI impact: Between \$500 million and \$1.5 billion in annual cost savings

1. TAXI will enable significant cost savings by reducing low-value data manipulation activities. Furthermore, talent redeployment to higher-value data analysis (rather than data mapping) will generate additional economic upside through ad marketplace efficiency and effectiveness.
2. If TAXI were to address even 50% of the ANA’s assertion, its impact on workflow costs would yield between \$500 million and \$1.5 billion in savings across the M&E supply chain.

Why should TAXI matter to you?

It drives US\$2.5 billion+ in annual economic benefits to the M&E supply chain



Estimated TAXI **annual** economic benefits from industry-wide adoption

US\$2.5 billion to US\$5 billion

Why should TAXI matter to you?

Because the year-over-year benefits far outweigh one-time adoption costs

TAXI PoC participants collectively believe that broadcast and cable networks (the “media networks”), followed by traditional MVPDs, will need to spend the most to become TAXI Compliant. Costs will primarily be concentrated in NOCs and broadcast centers and in systems that support the commercial operations function.

- ▶ Media networks estimated spend figures ranging from high six to mid seven figures each (costs that are controllable by coordinating with common infrastructure vendors, such as Harris).
- ▶ Agencies anticipated investments generally in the low six figures each (costs that can be trimmed if coordinated across holding companies and with key vendors, such as MediaOcean, DoubleClick and FreeWheel).
- ▶ Our sample size was too small to estimate cost figures for MVPDs (e.g., cable, telco and satellite); their costs are likely to be on the same scale as the media networks.
- ▶ All the participating media research vendors indicated that embedding EIDRs and Ad-IDs into their solutions was possible, and based on client needs, would be prioritized in the normal upgrade cycle. Costs varied greatly depending on each vendor’s existing capabilities to handle third-party identifiers.

Collectively, and estimated across the industry, one-time adoption costs should not exceed US\$500 million.

PoC participants anticipated that the most significant effort and investment will be concentrated in the following activities:

Because of inherent differences between individual M&E companies, these activities may be incomplete and may not occur within the business functions presented. This outline is meant as a planning guide only.

Media networks	Ad agencies	Digital and MVPDs	Media researchers
<ul style="list-style-type: none">▶ Upgrades to sales, traffic and research systems to accommodate TAXI.▶ Changes to content prep and asset management tools to enable TAXI embedding and flow-through▶ Changes to master control and NOC channel chains to enable TAXI flow-through to as-run logging.▶ Modifications to existing first-party digital reporting solutions to enable measurement with TAXI.▶ Upgrades to existing business intelligence solutions to enable reporting on TAXI.▶ Operational costs in content prep and comm ops associated with TAXI compliance.	<ul style="list-style-type: none">▶ Changes to creative production tools to enable TAXI embedding and flow-through.▶ Upgrades to research and sales systems to accommodate TAXI.▶ Upgrades to existing broadcast and digital campaign management solutions to enable trafficking, reporting and billing on TAXI.▶ Modifications to existing first-party digital reporting solutions to enable measurement on TAXI.▶ Upgrades to existing BI solutions to enable reporting on TAXI.	<ul style="list-style-type: none">▶ Upgrades to sales, traffic and research systems to accommodate TAXI.▶ Changes to content prep and asset management tools to enable TAXI embedding and flow-through.▶ Changes to master control and NOC channel chains to enable TAXI flow-through and as-run logging.▶ Modifications to existing first-party digital reporting solutions to enable measurement on TAXI.▶ Upgrades to existing BI solutions to enable reporting on TAXI.▶ Operational costs in content prep and comm ops associated with TAXI compliance.	<ul style="list-style-type: none">▶ Upgrades to existing tracking mechanisms, including watermarks or fingerprints and digital tags to accommodate TAXI.▶ Upgrades to existing BI solutions to enable reporting on TAXI.

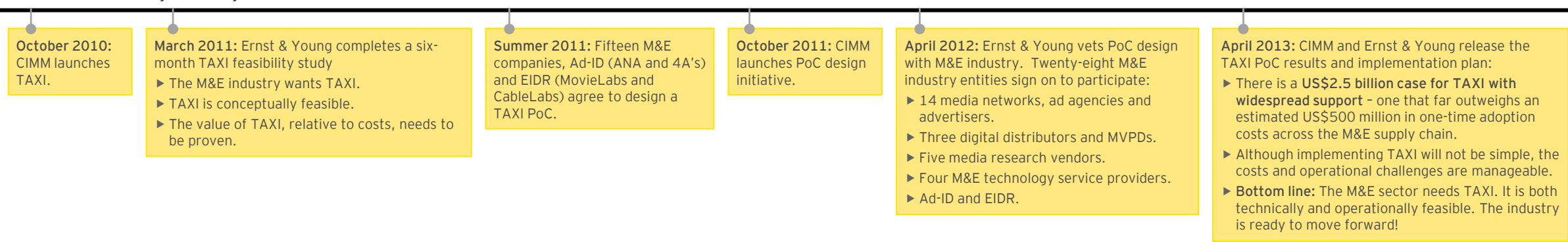
How do we know this will work?

Because 28 M&E entities spent more than two years proving it



TAXI Feasibility Study and PoC timeline

Logos used with permission
Some participating entities not listed



How do we know this will work?

TAXI Proof-of-Concept tests and results

TAXI PoC test goals: Simulate how TAXI may be adopted within content and advertising supply chains, for the purpose of:

- 1. Validating that media companies can assign IDs to assets and register those assets through existing registries (EIDR and Ad-ID) with appropriate metadata
- 2. Demonstrating how media networks and agencies can simulate ID flow-through from asset origination through distribution, consumption and measurement
- 3. Estimating the value of aggregated cross-platform, asset-centric media measurement data from multiple sources

What we tested	What we demonstrated	What this means
Asset registration <ul style="list-style-type: none">▶ Nine media networks and agencies assigned EIDRs and Ad-IDs to 38 distinct video content and advertising assets.	<ul style="list-style-type: none">▶ Simple, low-cost: The registration process was straightforward. Most M&E companies anticipated they would incur insignificant costs and effort to register assets, populate metadata and obtain IDs.▶ Existing registries work: EIDR and Ad-ID registries can handle multiple video asset classes (e.g., long-form and short-form programs, clips, ads, promos).	<p>Asset registration should be on everyone’s “do now” list</p> <ul style="list-style-type: none">▶ EIDR and Ad-ID have made registration simple and cost-efficient. Networks and agencies should implement this standard practice for all new video content and advertising assets.▶ A coordinated vendor-upgrade approach can hold technology investment costs down, since a small number of asset management vendors serves the M&E sector.
ID flow-through <ul style="list-style-type: none">▶ Each PoC participant demonstrated how IDs will need to flow within and between internal and third-party workflows.▶ Participants also tested an open-standard technology solution for binding IDs to assets in the broadcast television distribution domain.	<ul style="list-style-type: none">▶ As expected, legacy broadcast workflows are the most costly and complex: Technology hurdles required that participants manually shuttle IDs through legacy broadcast infrastructure. ID flow-through in the broadcast TV domain, while possible, will be difficult and costly to implement. ID flow-through for file-based workflows (e.g., digital, VOD) will be much less costly to implement; many networks and agencies are already identifying video files with house IDs.▶ Technology-based ID-to-asset binding is both feasible and necessary: Several PoC participants demonstrated one possible binding solution that, if adopted, can keep ID flow-through implementation costs to a minimum. This method, which uses the closed-captioning space, has several limitations, but it may suffice for a “v1.0” TAXI rollout.	<p>Focus on file-based workflows until broadcast binding standards are resolved</p> <ul style="list-style-type: none">▶ Start with digital video and VOD ID flow-through. Keeping IDs and assets together within file-based asset workflows is dramatically less challenging (and costly) to implement. Get these operational first.▶ Figure out binding for broadcast video before tackling flow-through in this legacy domain. The industry needs to agree-upon a viable, scalable binding technology that will work with today’s legacy broadcast distribution infrastructure. The technology tested in this PoC is certainly a candidate. Establish a working group with the support of organizations such as SMPTE, ATSC, SCTE, NABA, AMWA and CEA.
Measurement and reporting <ul style="list-style-type: none">▶ Five media research vendors and each of the participating agencies and media networks demonstrated that cross-platform consumption data can be compiled into a single data set from multiple sources.	<ul style="list-style-type: none">▶ TAXI makes it relatively easy to compare multiple data sources: Minimal effort was required to merge cross-platform asset-centric consumption data from multiple sources representing broadcast TV, VOD and digital distribution platforms.▶ Ease of comparison dramatically reduces costs, effort and cycle time: Research executives were able to estimate quantifiable data management-related cost reductions and improved time-to-results.	<p>“Apples-to-apples” cross-platform comparison is just the beginning</p> <ul style="list-style-type: none">▶ Transparency and accountability will improve media marketplace dynamics. TAXI makes it easier to obtain comparable asset-centric consumption data, helping to create greater marketplace transparency and accountability, which will boost overall spend.▶ TAXI will spark a wave of innovation. TAXI will make it easier for the industry to implement “applications” that will further improve the content and advertising marketplace.

How do we know this will work?

More on the technology-based ID-to-asset binding test

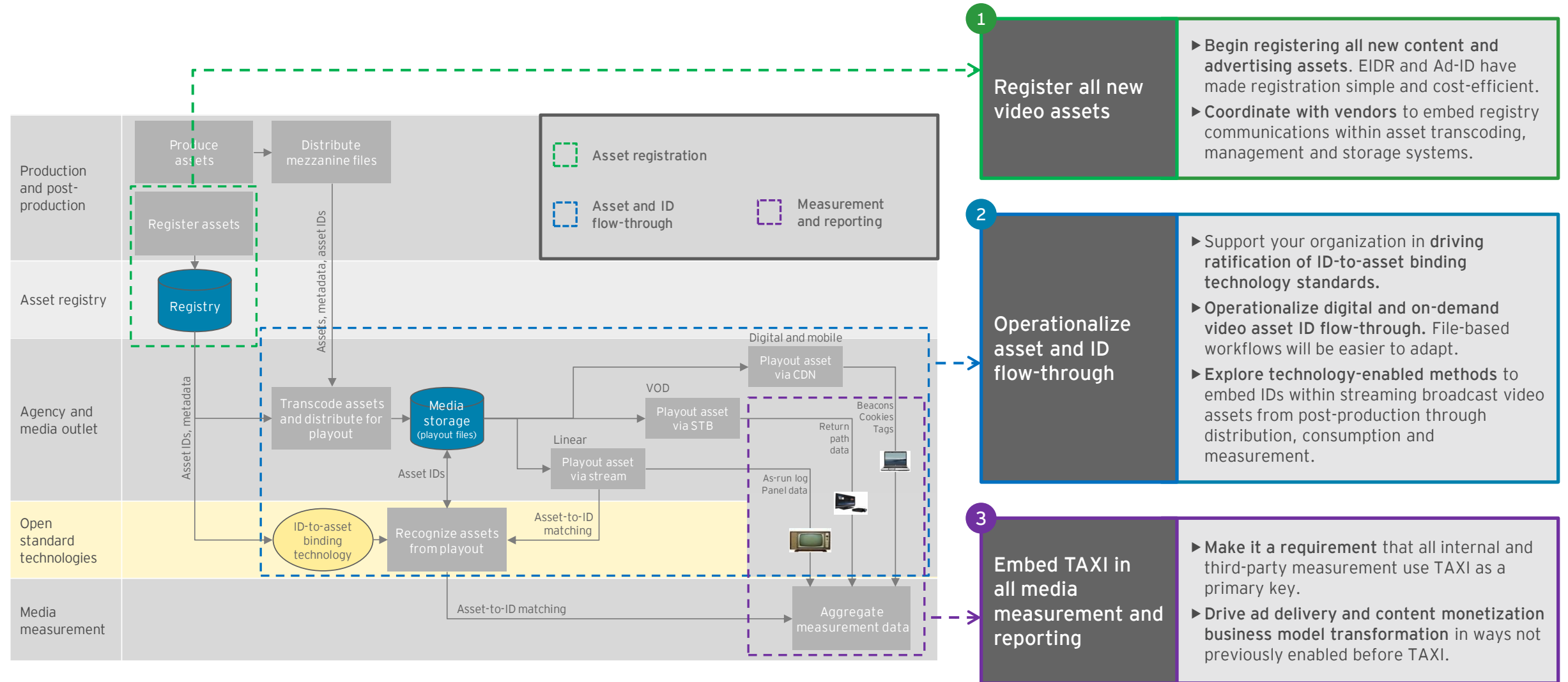
TAXI binding test goals: Demonstrate that an existing technology can be used to bind IDs to assets so that they can survive normal distribution through the broadcast supply chain with minimal modifications to existing infrastructures. Binding test steps were:

- 1. Prepare media by embedding the identifier into the MXF container
- 2. Encrypt the identifier and “bind” it to closed-captioning space (CC4 was used during the test)
- 3. Simulate satellite transmission to demonstrate that the identifier will survive distribution to affiliates
- 4. Simulate over-the-air ATSC transmission to demonstrate that the identifier will survive distribution to consumers

ID-to-Asset Binding Working Group	<ul style="list-style-type: none">▶ Ad-ID▶ Arbitron▶ Comcast▶ EIDR▶ Fox▶ Kantar▶ NBCU▶ Nielsen▶ NTC▶ Viacom	<p>What we demonstrated: Closed-captioning (CC) is one possible method to bind EIDRs and Ad-IDs to commercial broadcast video assets.</p> <ul style="list-style-type: none">1. Media identifiers can be embedded into the MXF file container.2. EIDR and Ad-ID metadata can be inserted into the MXF files in conformance with standards such as AS-03 and AS-12.3. EIDRs and Ad-IDs can be encrypted and un-encrypted in the closed-captioning space, though further work is needed if this method is to be commercialized.4. EIDR separation characters may have to be removed to accommodate field limitations, but this will not affect functionality.5. Closed-captioning data can be preserved through satellite distribution to affiliates.6. EIDRs and Ad-IDs transported by the closed-captioning method can survive ATSC transmission to an end-user device.7. The closed-captioning method, in conjunction with ID3 tagging, could work for mobile.	<p>The limited broadcast binding test proved to be successful.</p> <p>The use of the closed-captioning space represents an inexpensive binding methodology that is available to broadcast and cable networks today. It is a possible broadcast binding solution.</p> <p>However, there are limitations to this methodology, mainly associated with maintaining the fidelity of the CC message across broadband and mobile devices and through encrypted MVPD transmissions. Further, “reading” the CC message with metering systems that require audio signatures will not be possible.</p> <p>Thus, while a CC-based solution is viable in many cases, over the longer term, we recommend the industry turn to one or more technical standards organizations – such as SMPTE, AMWA, NABA, CEA, ATSC and/or SCTE – to develop more robust, scalable technical standards that satisfy a wider set of use-cases.</p>

What do you need to do?

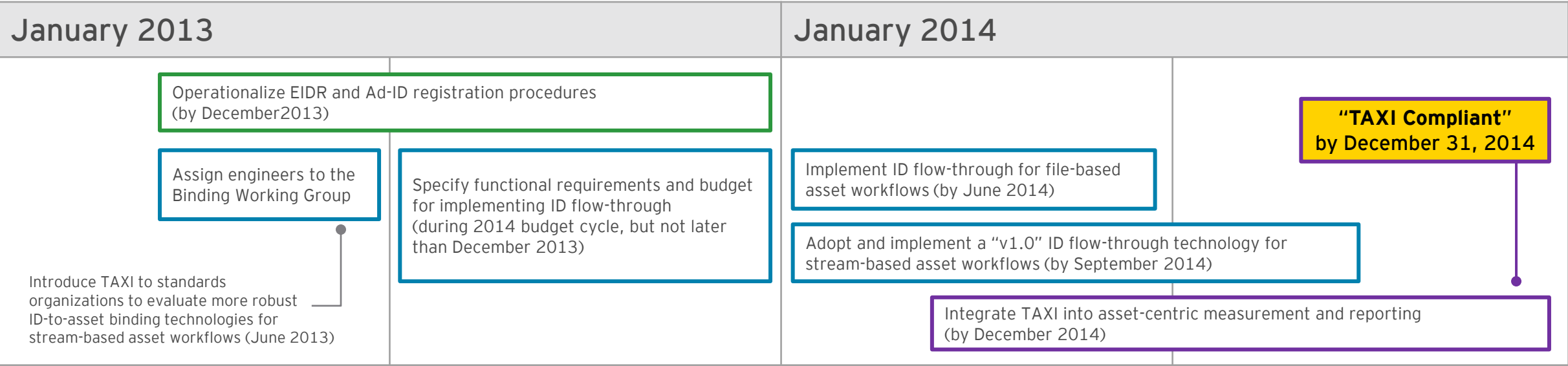
Become "TAXI Compliant" in 2013 ... and demand compliance from your partners



What do you need to do?

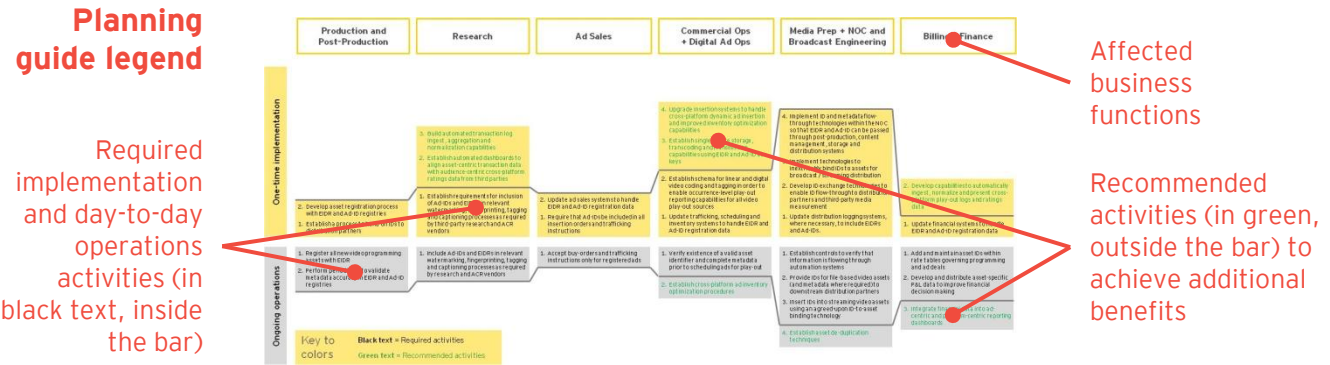
Recommended two-year implementation timeline

CIMM is advocating an assertive timeline that gets “TAXI version 1.0” adopted across the M&E sector before the end of 2014. TAXI PoC participants indicated that such a timeline was feasible with the caveat that certain technical and operational solutions may be sufficient to get entities started, but would need to be hardened and scaled in 2015 and beyond.



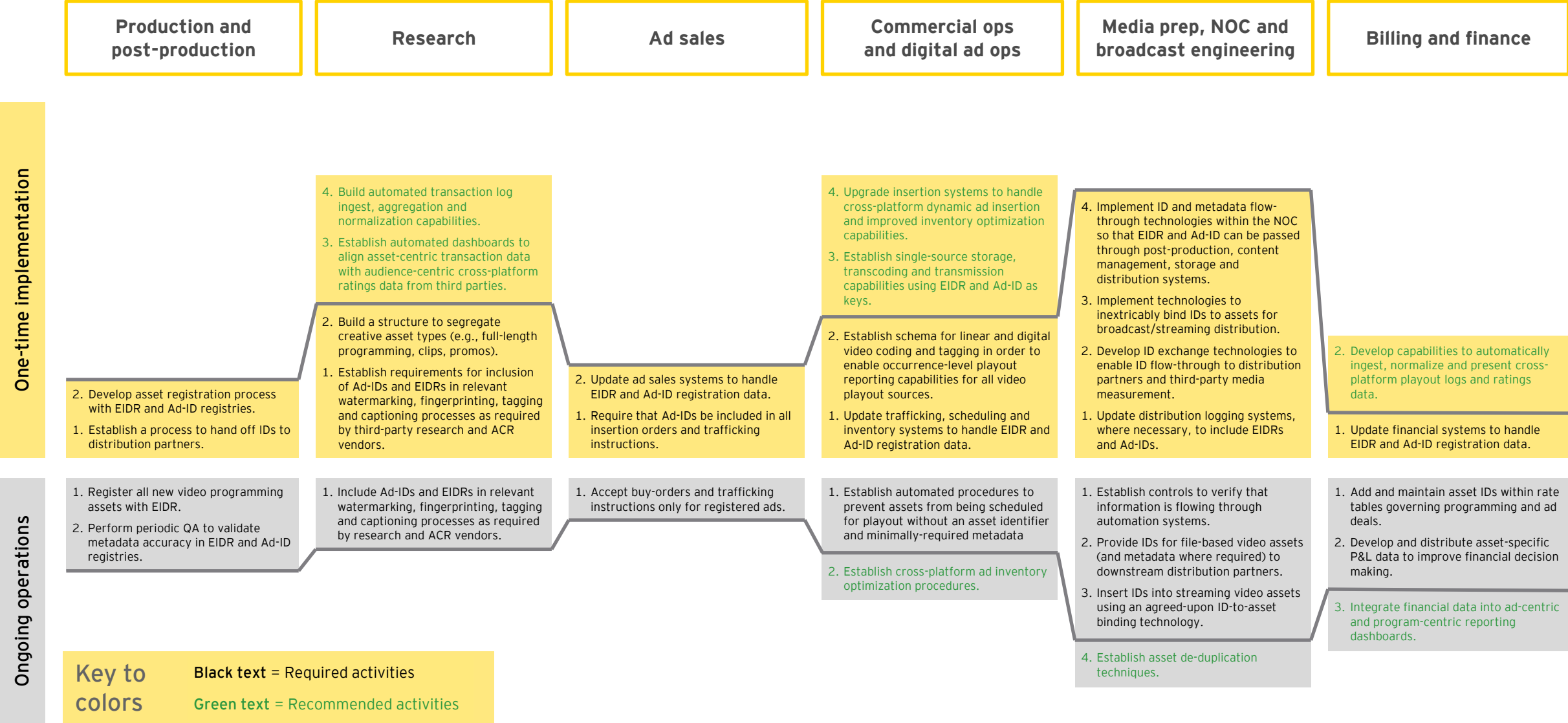
Participating M&E organizations outlined significant activities within their businesses that will need to be initiated in order to adopt TAXI. Further outlined are several recommended steps designed to drive additional business benefits.

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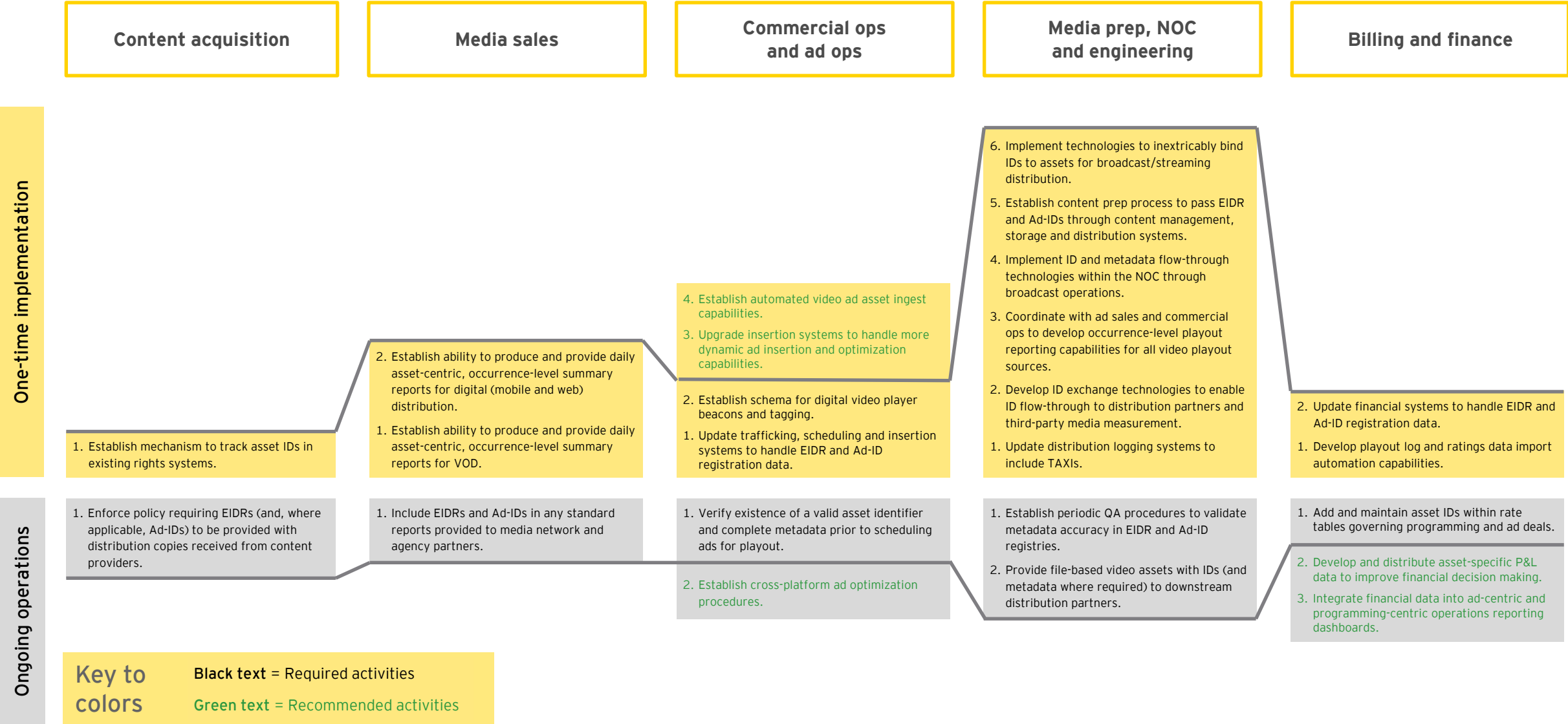
What do you need to do?

What media networks need to do to become “TAXI Compliant”



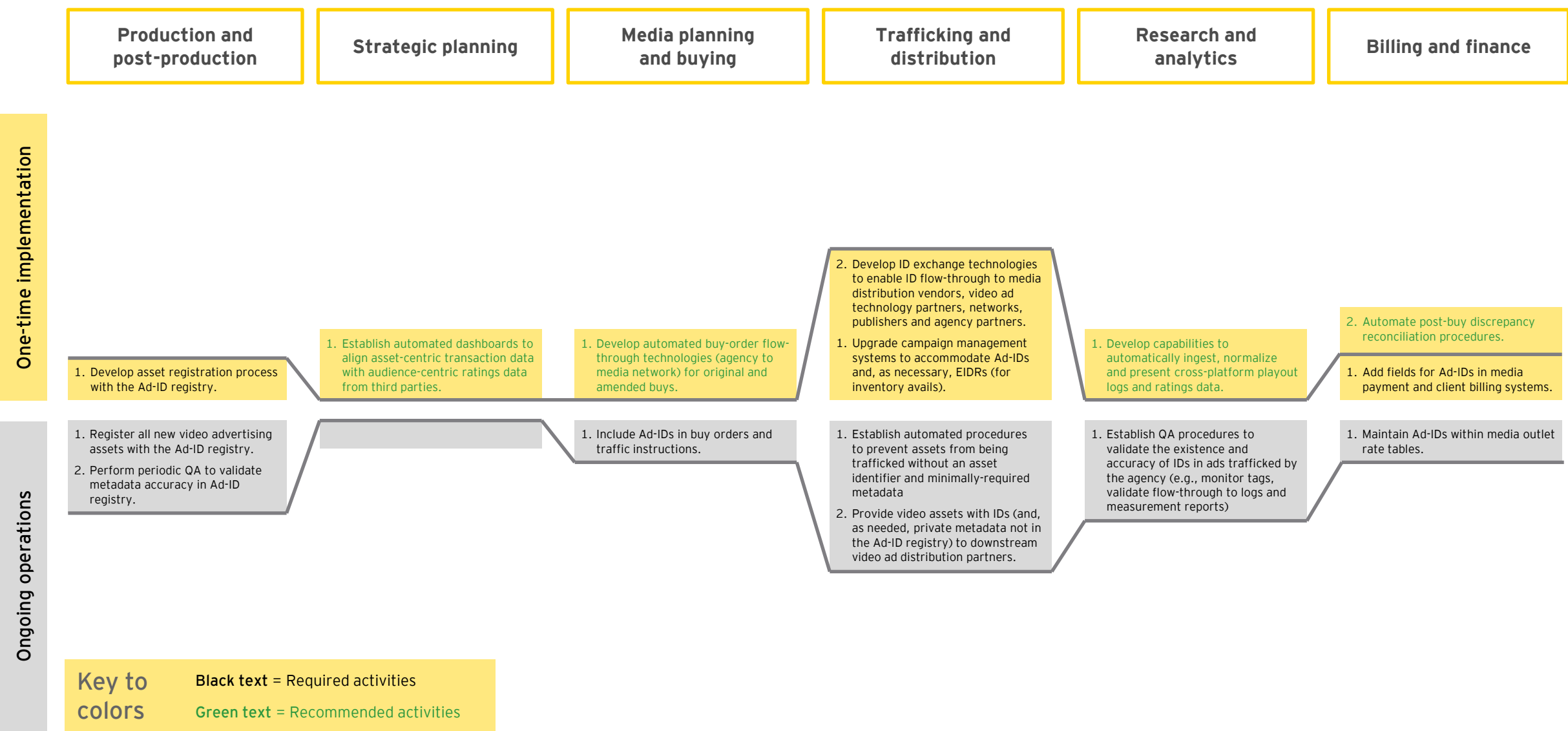
What do you need to do?

What programming distributors need to do to become “TAXI Compliant”



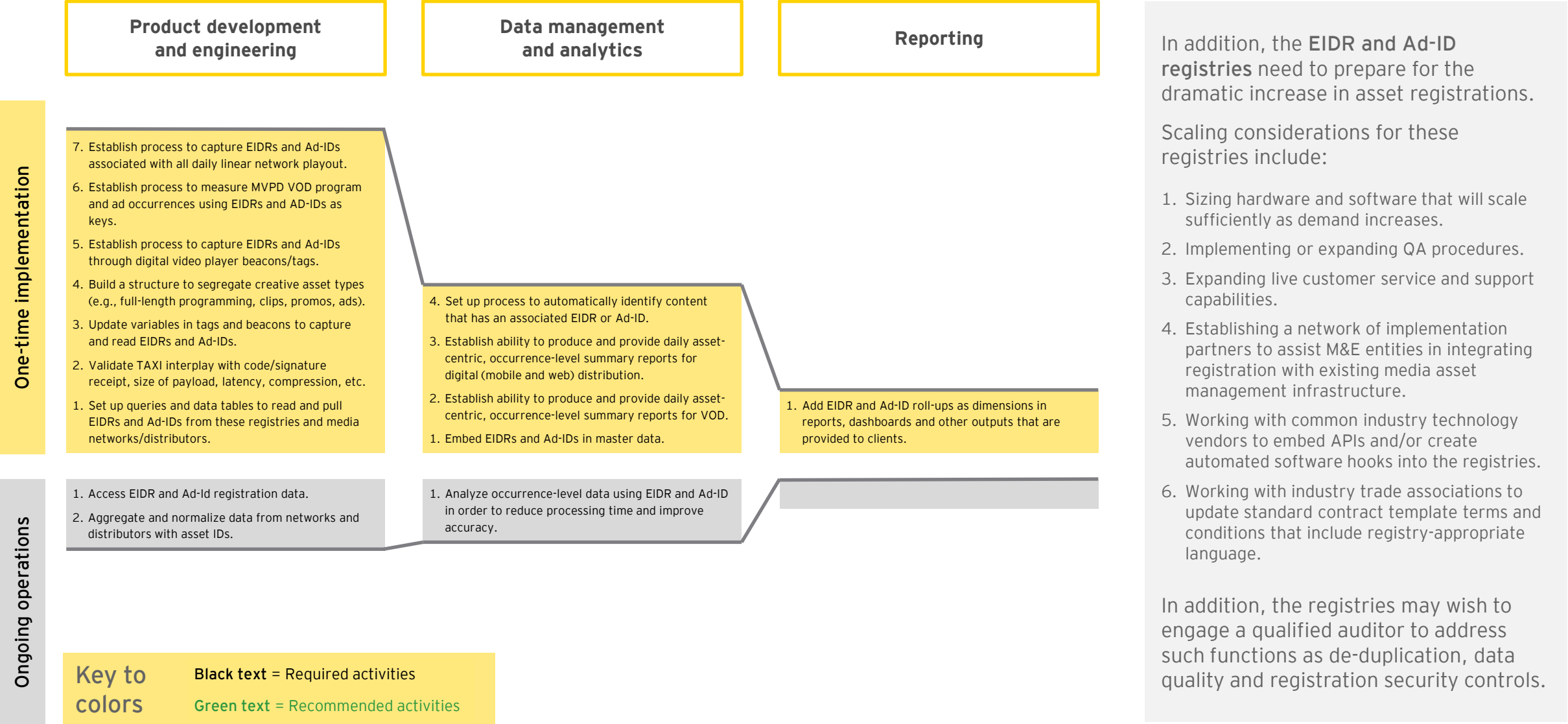
What do you need to do?

What advertising agencies need to do to become “TAXI Compliant”



What do you need to do?

What media research companies need to do to become “TAXI Compliant”



TAXI Proof-of-Concept participants

Steering committee members

ABC Television Group	comScore	FreeWheel	Mediabrand s	Rentrak
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