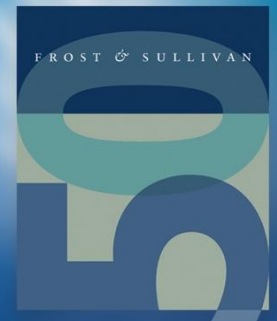


# The TV Everywhere Ecosystem: OTT Video Redefining the Landscape

Mukul Krishna, Senior Global Director, Digital Media Practice  
Frost & Sullivan  
Dan Kates, Strategic Consulting Analyst

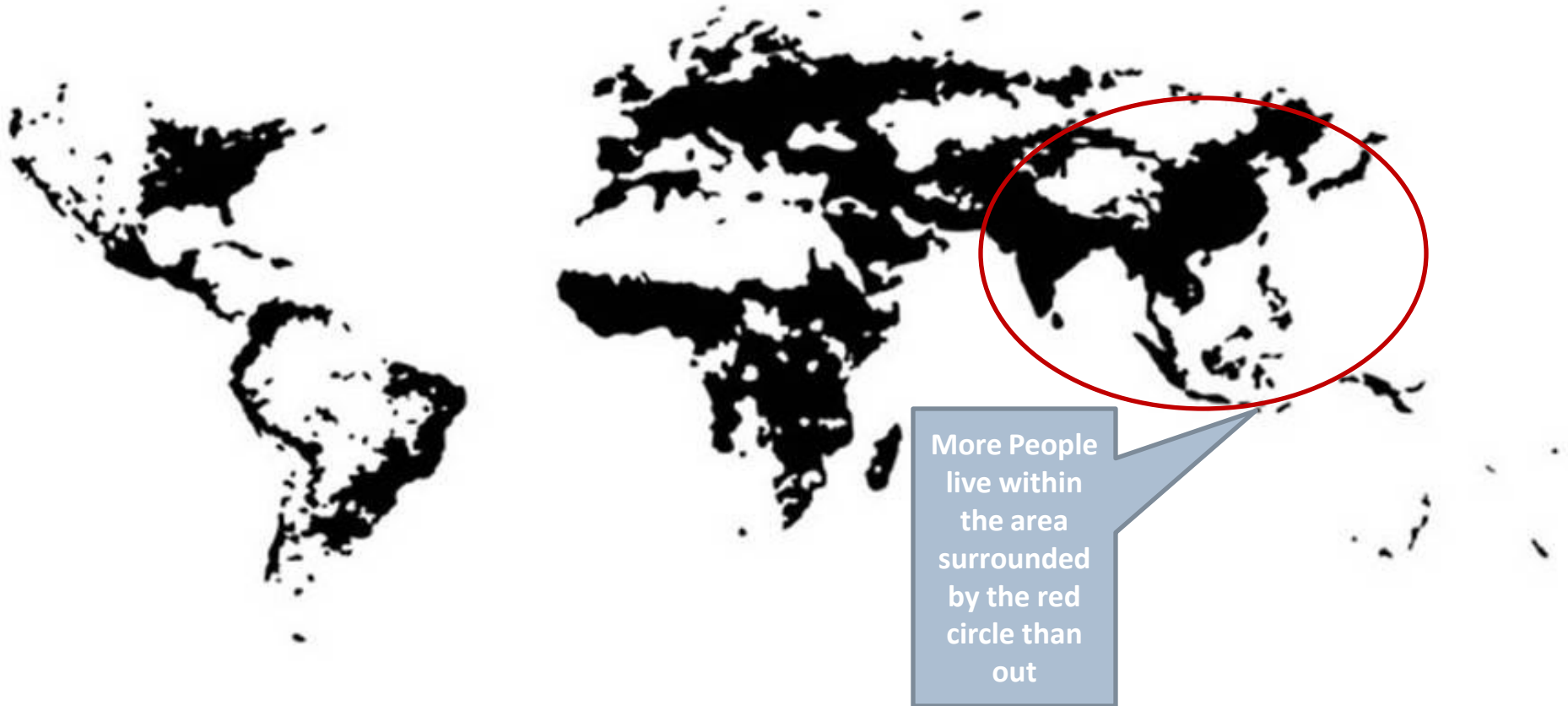


# The TVE/OTT Ecosystem



# Population Concentration

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Source: Derek Watkins.

# Regional Market Life Cycle Analysis



Source: Frost & Sullivan.

# Key Takeaways

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**Position:** TV Everywhere is a “must-have” service offering for any Pay TV provider today. There is a lot of excitement and end-user device proliferation and ubiquitous connectivity are driving a demand side pull for such services. Thus, despite business model ambiguity, the need to provide these services is mandatory

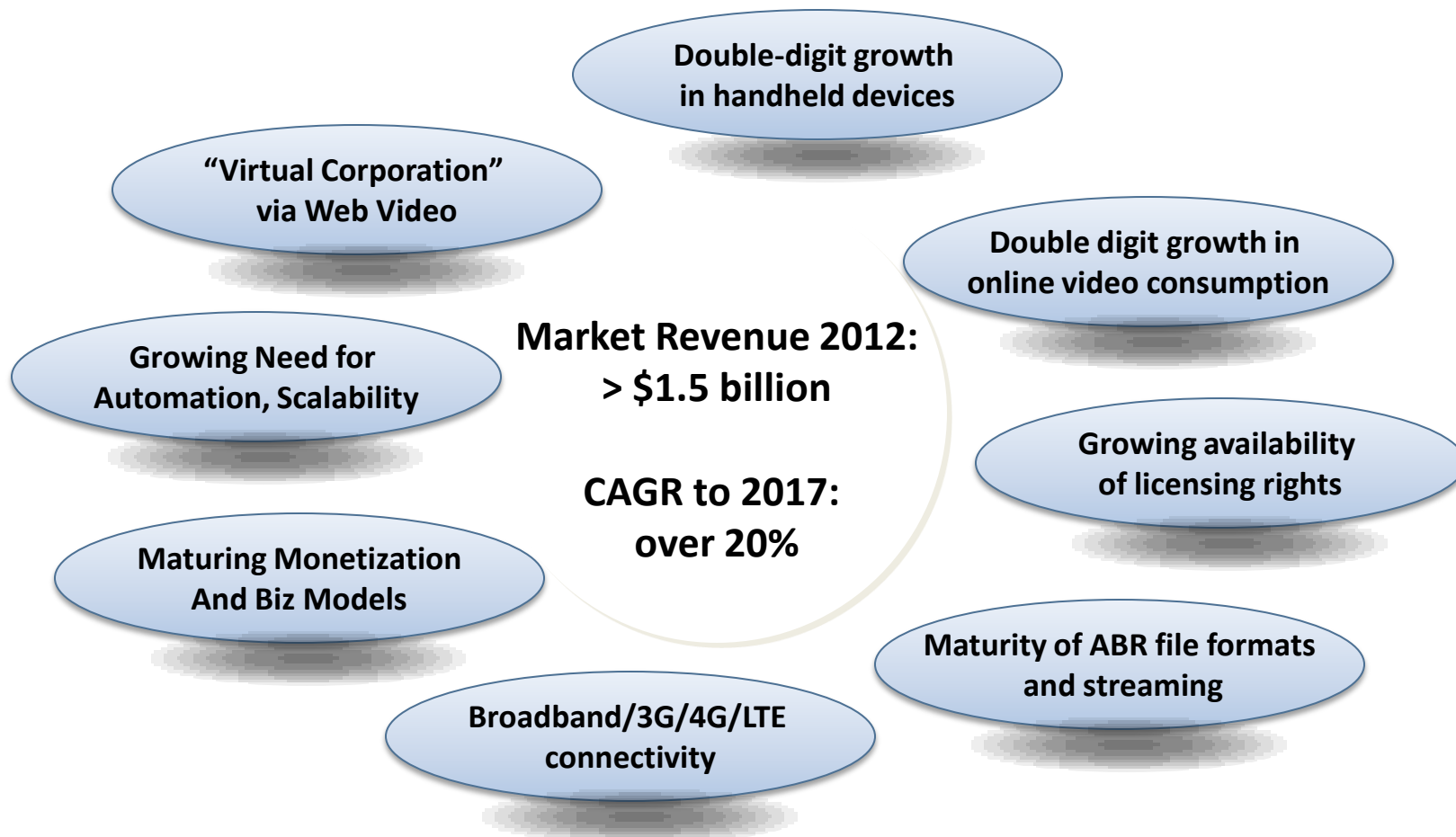
**Standards:** Pay TV providers are increasingly struggling to unify and streamline the multi-screen experience and make it cohesive across all screens. This pertains to the client facing user experience to mirror all primary screen experience to secondary screens as well as from an upstream workflow and delivery perspective for the operator

**Competition:** Any tech savvy teen can publish video online – OVPs are trying to reinvent and position themselves to be more monetization focussed as are others across the value chain – analytics has become a key area of focus

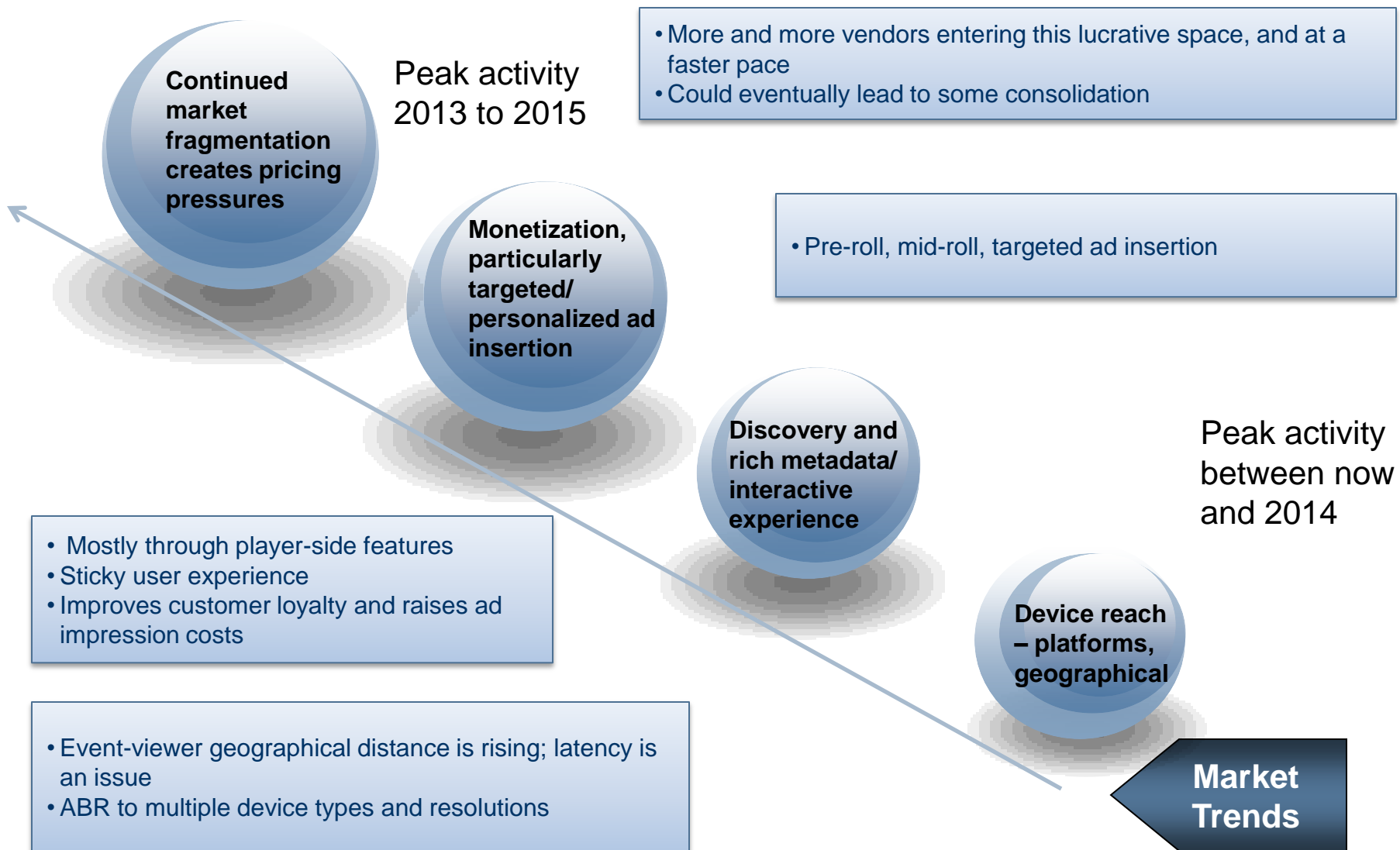
**Strategy:** Cloud architectures will play a key role to deploy TVE . As delivery to unmanaged devices grows, so is the need to use the cloud to complement the traditional STB based managed device paradigm



# TVE / OTT – Growth Driven by Major Market Trends

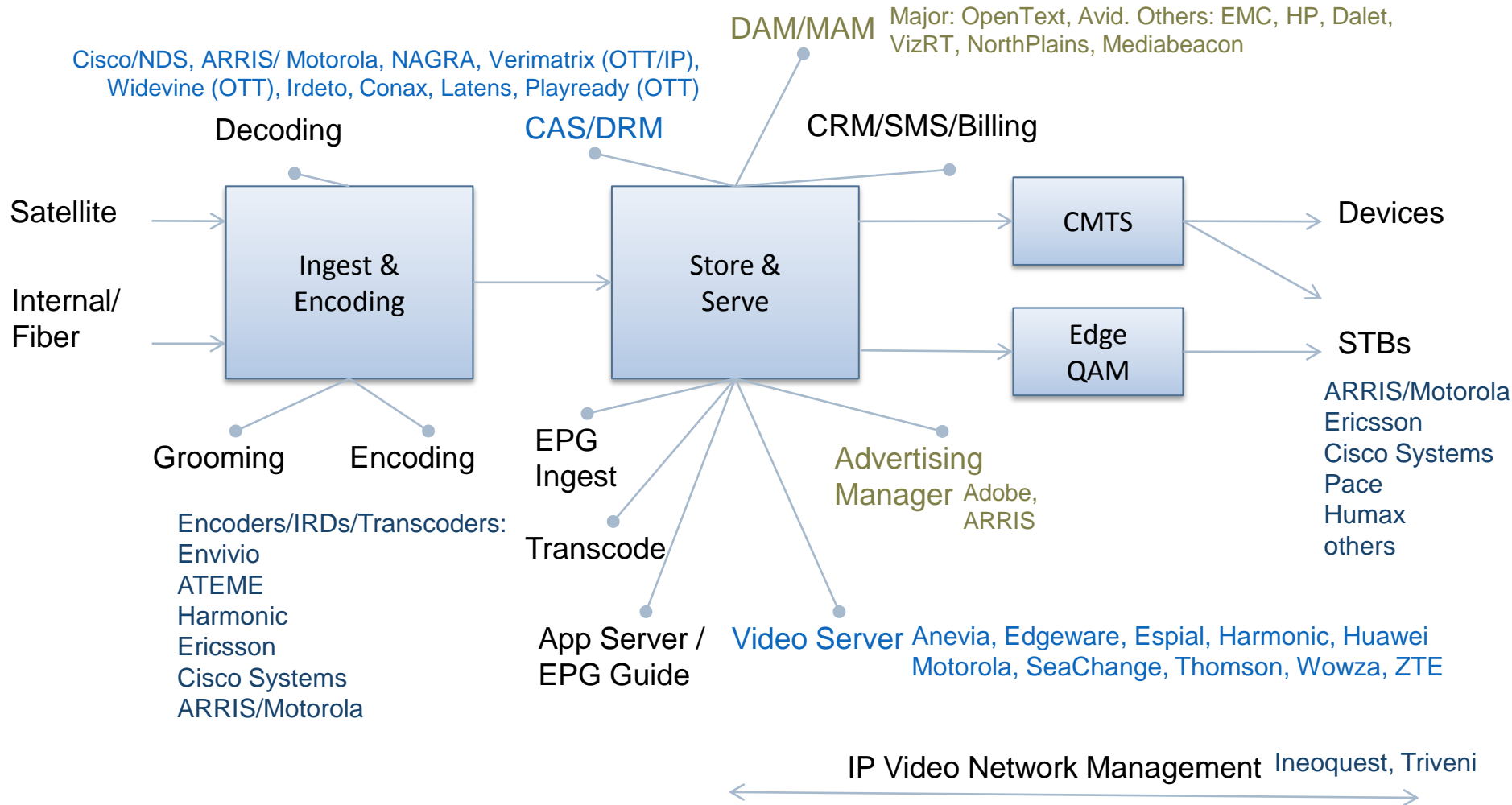


# TVE / OTT Key Market Trends

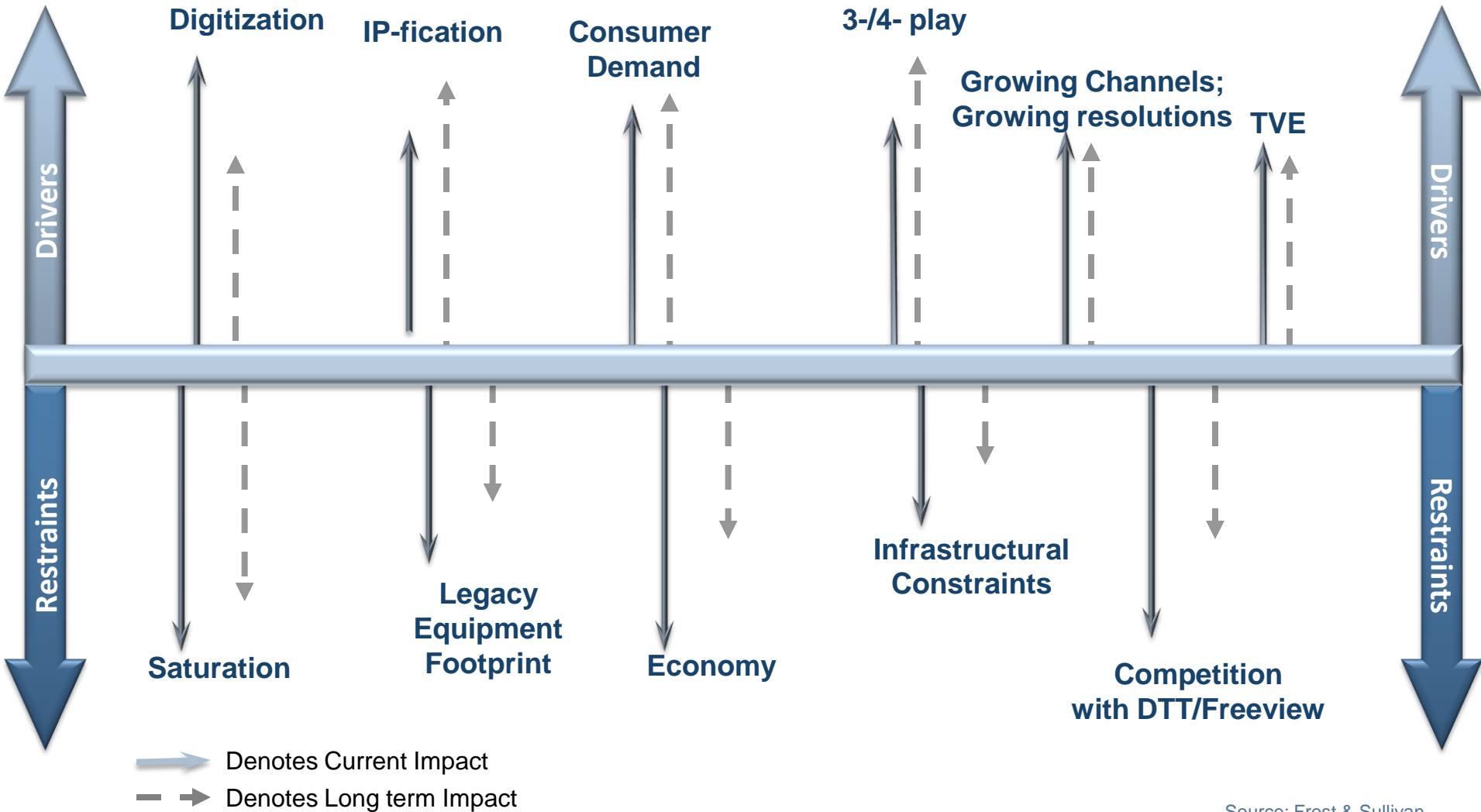


# Typical VOD Architecture

Platform Vendors: ARRIS, Ericsson, Cisco, Comcast Media Center, ZTE, Seachange, Teleste, others

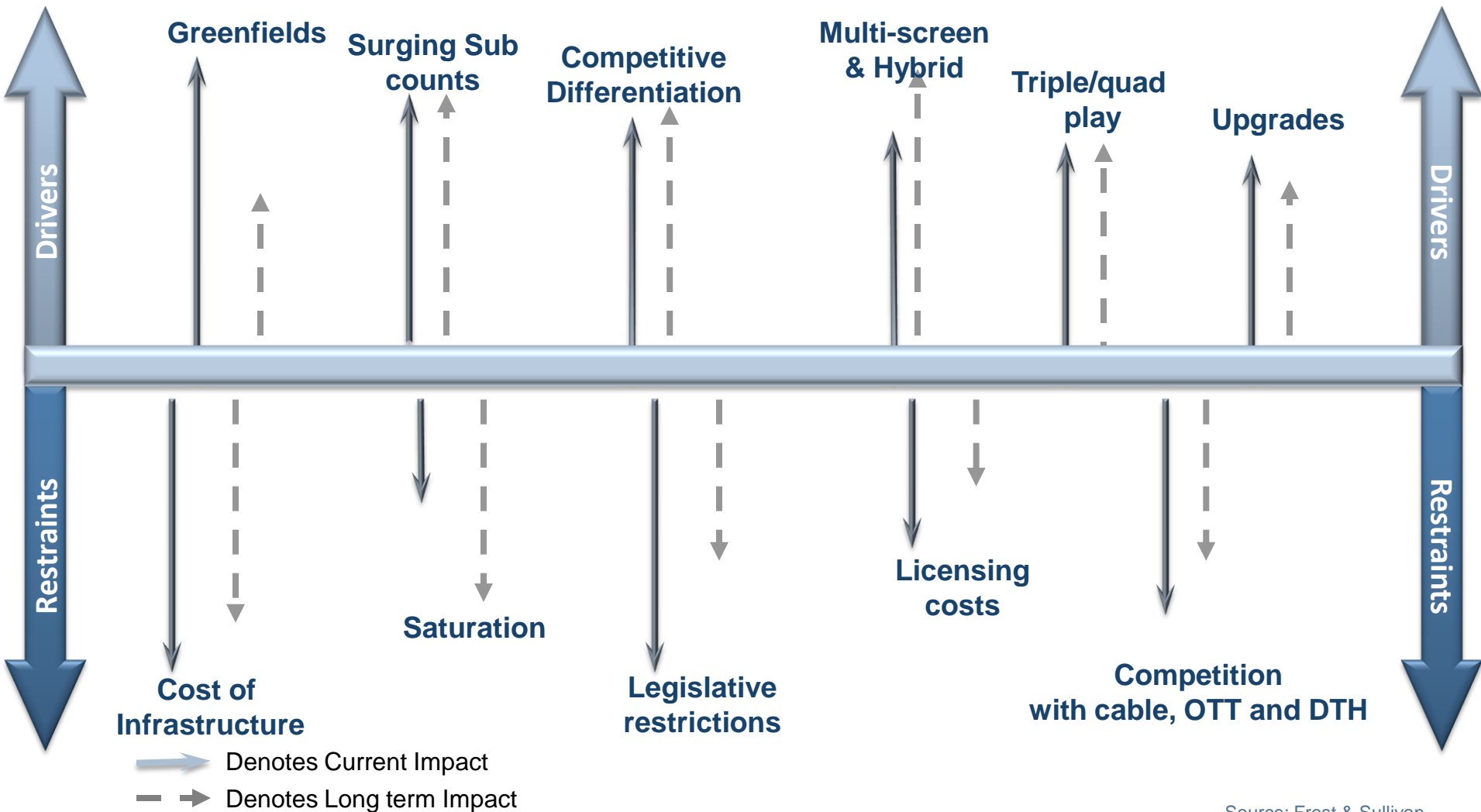


# Cable Drivers and Restraints



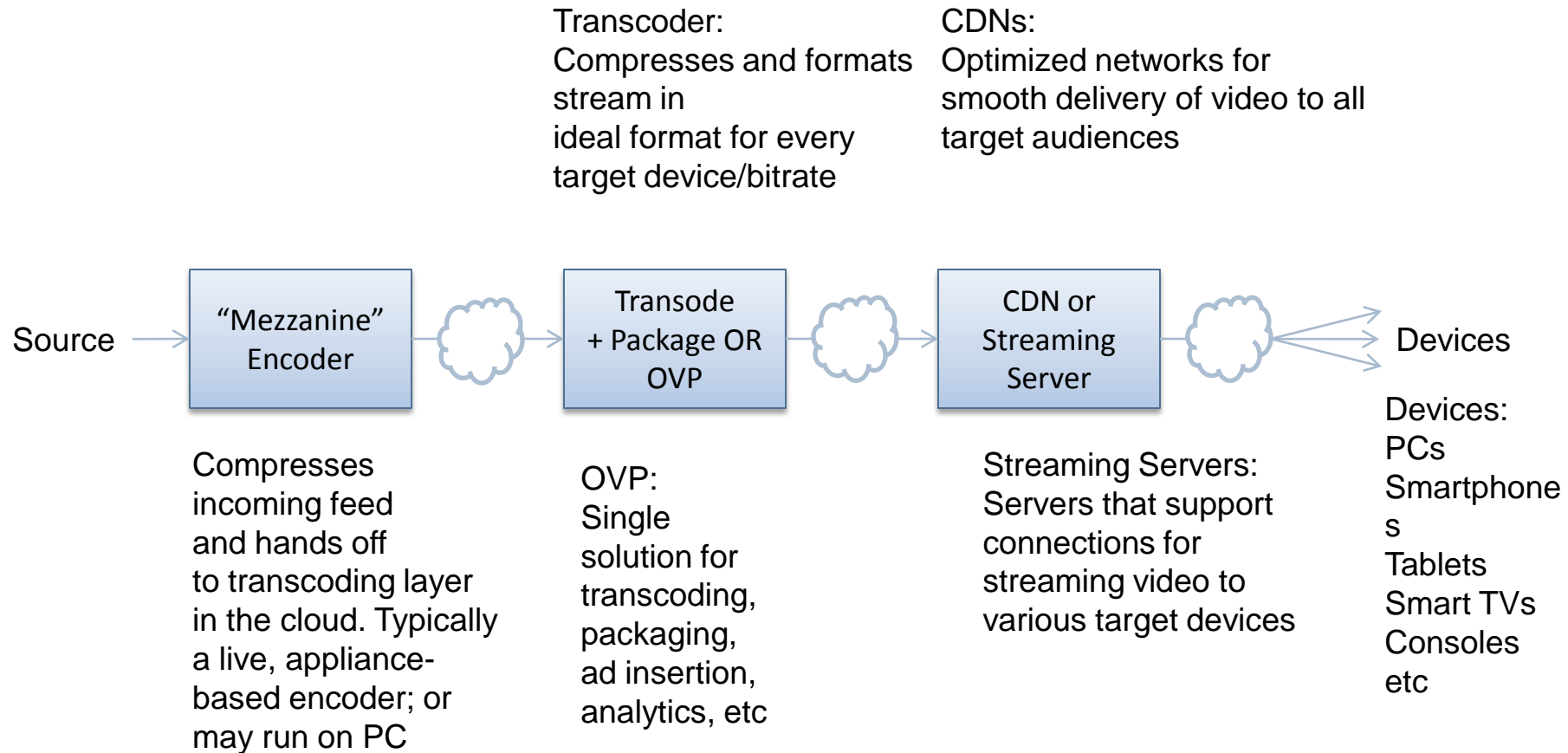
Source: Frost & Sullivan

# IPTV Drivers and Restraints



Source: Frost & Sullivan

# OTT Live Via Cloud

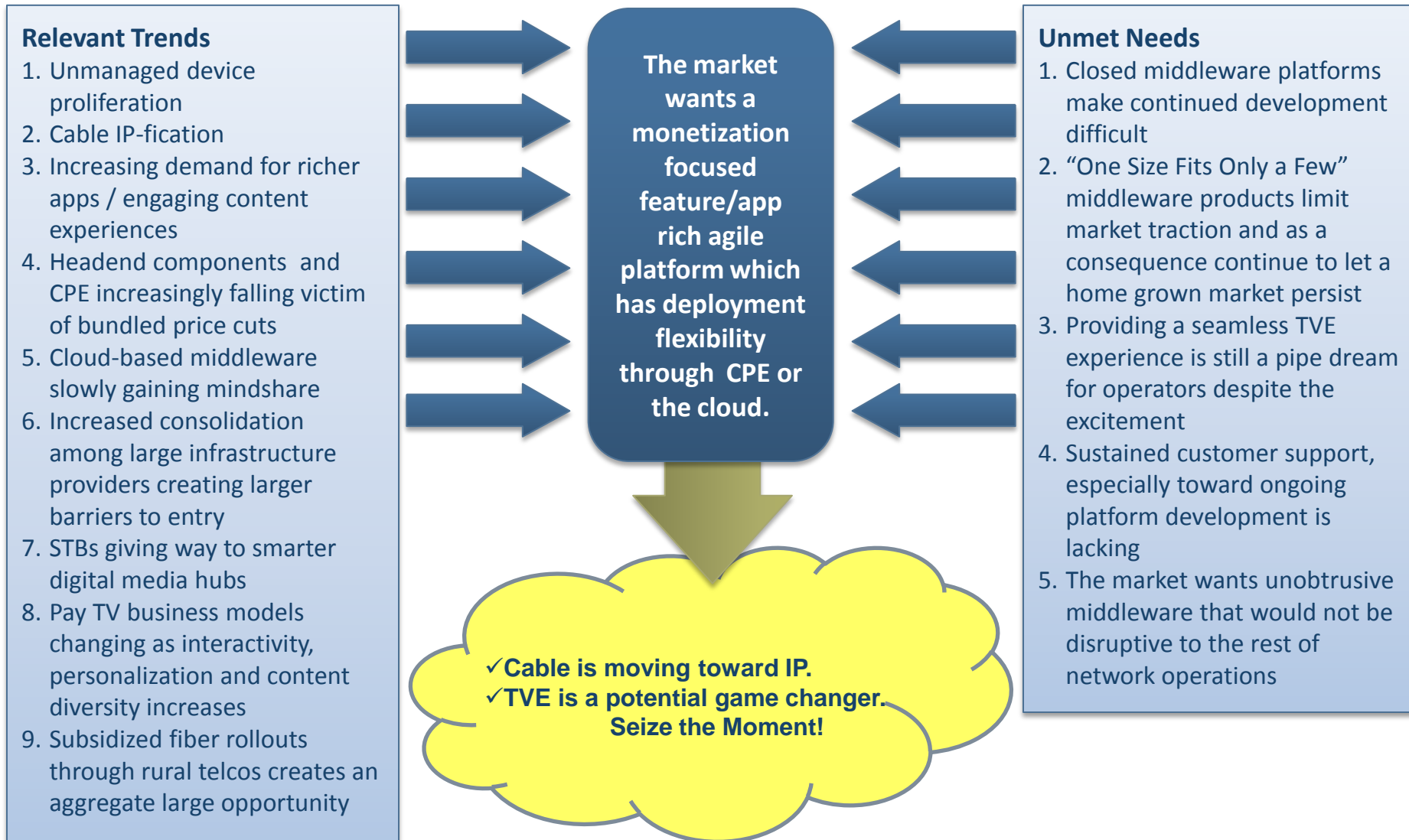


# Consumer Video Devices – Unit Forecast by Product Segment

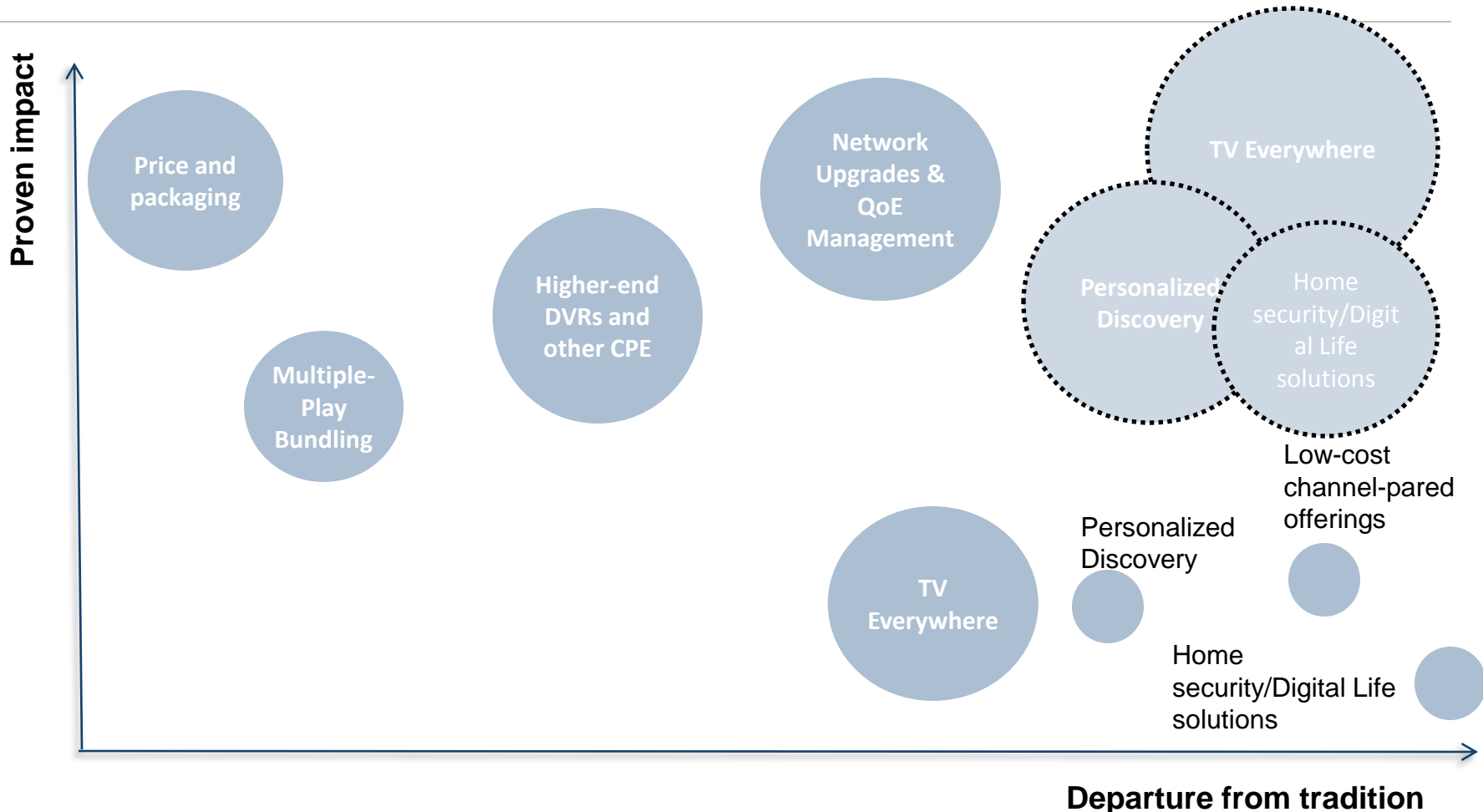
Year	Video Game Consoles	Set-Top Boxes	Blu-ray Players	Smart TVs	Smart Phones	Tablets	IP Streaming Devices
2011	40.7	158.0	47.3	62.2	540.9	67.0	5.2
2012	31.3	198.0	59.1	86.1	734.7	124.4	10.7
2013	36.8	222.9	70.9	124.2	921.3	167.2	19.4
2014	43.3	233.6	83.7	164.2	1,130.4	216.7	25.2
2015	50.4	235.5	97.1	191.1	1,376.8	266.8	29.1
2016	58.6	245.2	111.7	222.2	1,642.5	316.2	32.0
2017	68.1	239.8	126.2	244.4	1,974.3	359.2	34.9
<b>CAGR (2012-2017)</b>	<b>16.8%</b>	<b>3.9%</b>	<b>16.4%</b>	<b>23.2%</b>	<b>21.9%</b>	<b>23.6%</b>	<b>26.7%</b>

Note: All figures are rounded. The base year is 2012. Source: Frost & Sullivan

# Trends, Opportunities & Unmet Needs



# Churn Management Tools In Perspective



*TV Everywhere, Personalized Discovery and Digital Life Solutions will be the most transformative over the next 36 months. The rest are expected to remain at the same level of importance*

Note: Size of bubbles indicates level of current investment and the dotted outline bubbles are forecasted investment levels for those that will transform the most. Source: Frost & Sullivan

# Factors Influencing the M&E Ecosystem: Key Takeaways

**Transformative technical trends and changing priorities, in descending order of impact**

