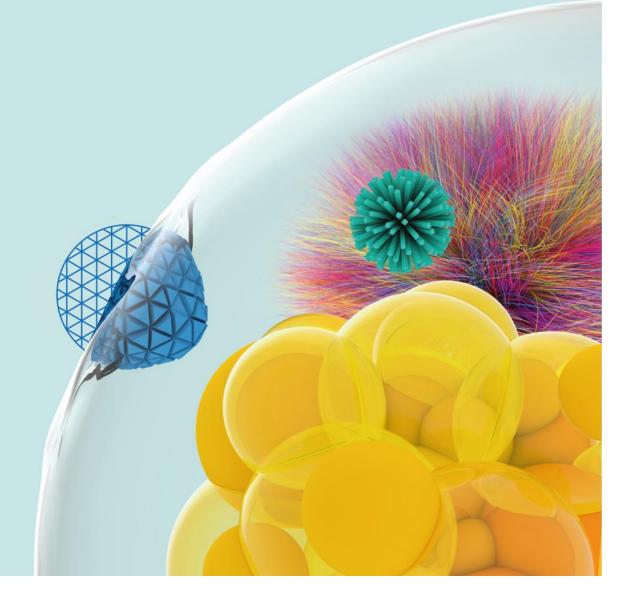
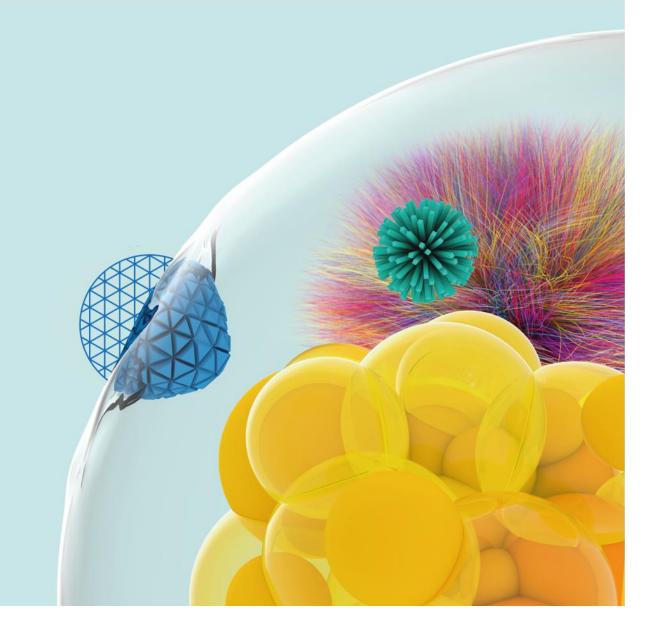
Bango Technology & Market Strategy Day 2022



Introduction



Today's speakers



Ray Anderson
Executive Chair &
Co-Founder



Tom Tahara NTT Docomo Partner video



Wayne Griffiths
COO
What is the
Bango Platform?



Karen Langley Liberty Global Customer speaker



David Haughton
VP Engineering
Onboarding, integration
& migration



Cei Sanderson
Director of Product
Management
Product innovation



Anil Malhotra
CMO & Co-founder
Market innovations
drive growth



Stefana Pesko Product Madness Customer fireside chat



Rebecca Jamieson Head of Investor Relations

Other members of the Bango team here to meet you



Matt Garner CFO



Sukey Miller
VP Marketing
Communications



Jo Parsons
Product Manager



Neil Ginsburg SVP Sales, EMEA & Asia

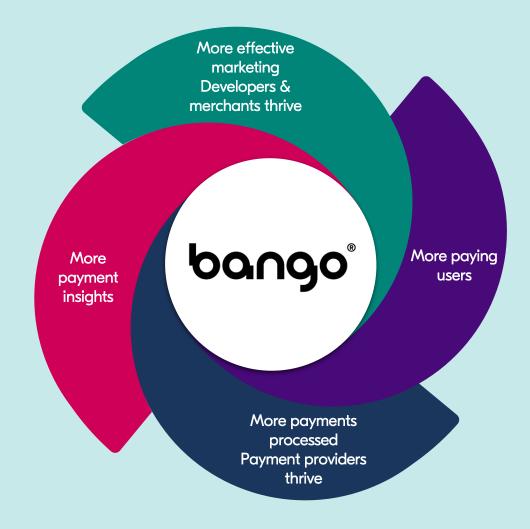


Lisa HuxleyDirector, Strategic
Accounts



Bango strategy — the virtuous circle

- Bango Payments driving transaction volumes through the platform generating masses of data
- Bango Audiences using advanced techniques on the data to make Bango indispensable in online marketing
- The more payment data Bango processes, the more effective and valuable Bango Audiences become
- Marketing that generates more purchase activity produces more data insights, which continuously improves marketing effectiveness

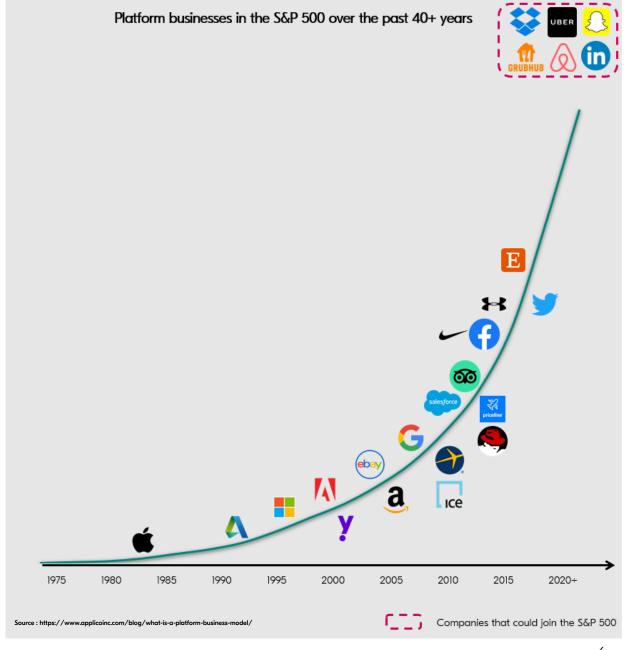




What is a platform?

"A business model that creates value by facilitating exchanges between two or more interdependent groups"

- Bango platform connects merchants to payment providers
- Multiple points of value creation
 - Finding paying users
 - Processing payments
- The Network Effect
 - The benefits from the Bango Platform increase as the number of people using it grows
 - It is in everyone's interest to encourage others to join
- The Bango Platform is uniquely positioned to deliver value no one else can

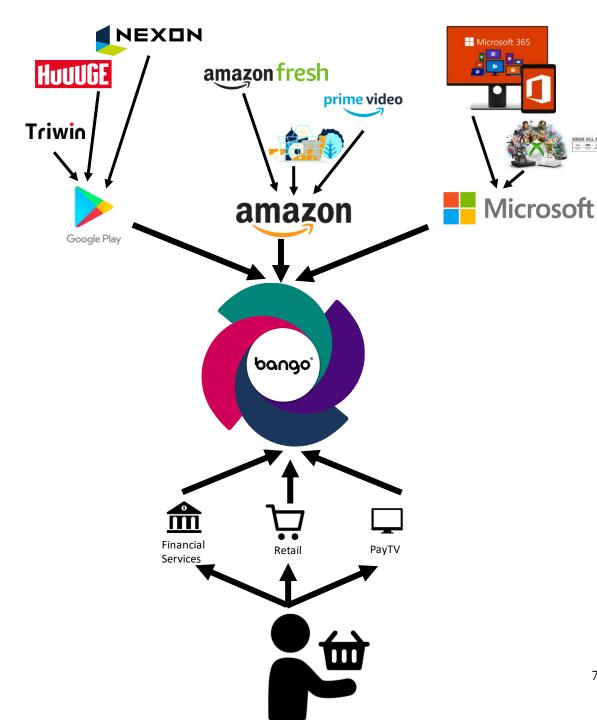




Unique Bango Platform differentiator

- Bango has data that nobody else does
- Bango platform sees what users purchase across multiple merchants via multiple channels
- Benefit from broader customer knowledge
- Example insights:
 - Increase payment success by timing subscription billing when the customer is most likely to have available funds
 - Find new paying users by targeting using purchase behavior. A customer who purchases lots of games in the app store = potential Xbox All Access customer
- Advantages to merchants:
 - Scale with simplicity
 - Speed to market
 - Maximize revenue opportunity
 - Allows focus on brand differentiators





Leading brands have adopted the **Bango platform**



verizon















What is the Bango Platform?

Wayne Griffiths

Chief Operating Officer



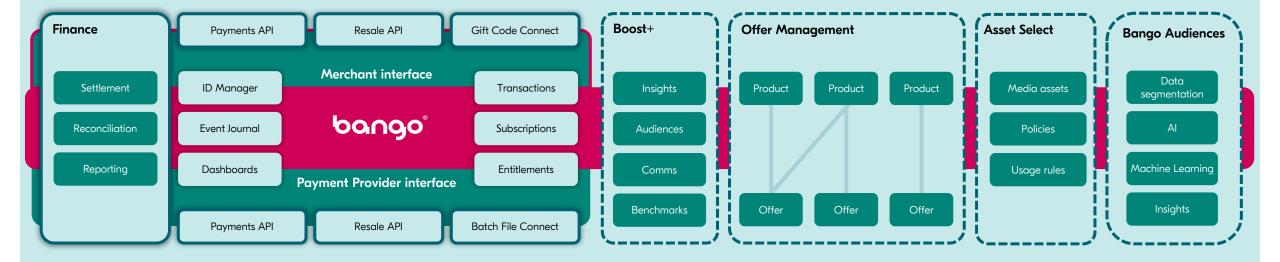
Delivering the Bango Platform

- Flexibility for enhancement and evolution is key
 - The Platform is optimized for any kind of transaction, not just payment processing. E.g. entitlements, offer activation, payments, audience sharing.
- Supports business critical activity for partners
 - Record sales, revenue capture, find paying users.
- Built to scale
 - Handle large activity peaks from promotion of new releases, seasonal events.
- Secure and resilient
 - Bango's 'cloud first' solution is paramount to achieve this. Using best in class technology to ensure high quality service to our customers.



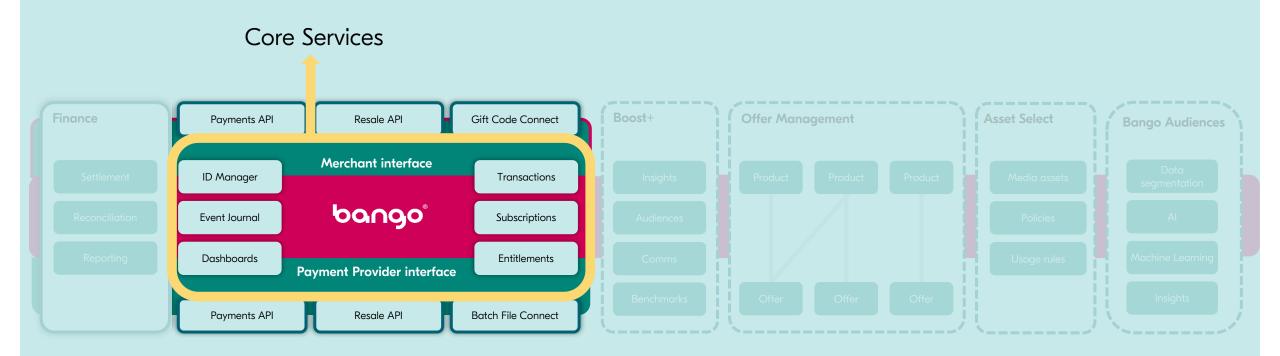


The Bango Platform



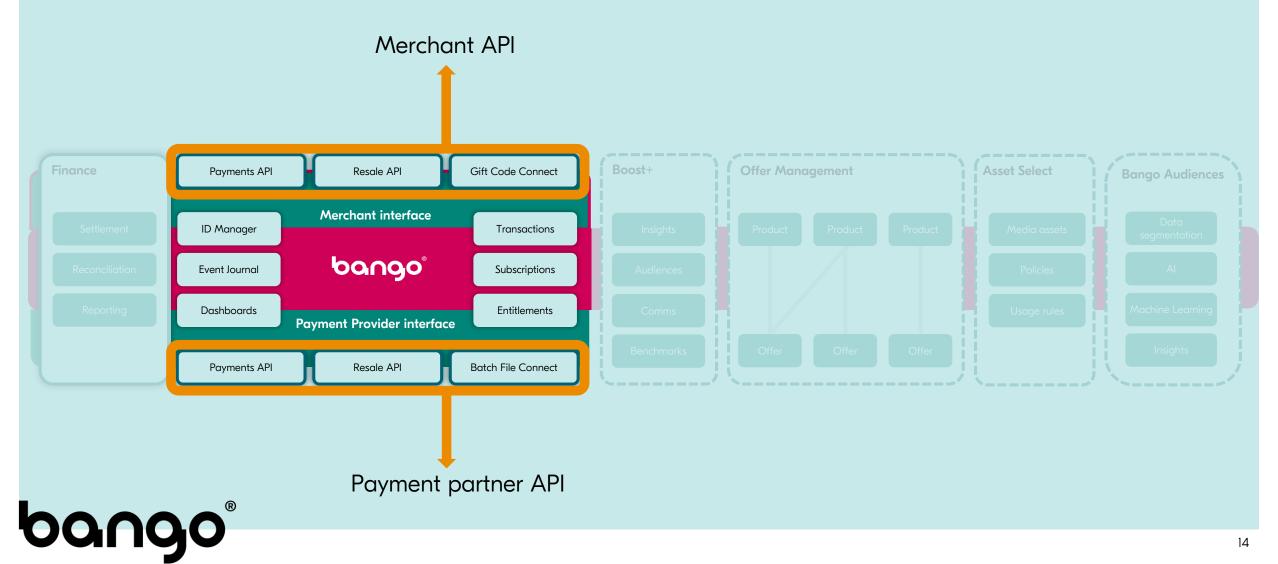


Bango Platform — internal workings





Bango Platform — internal workings

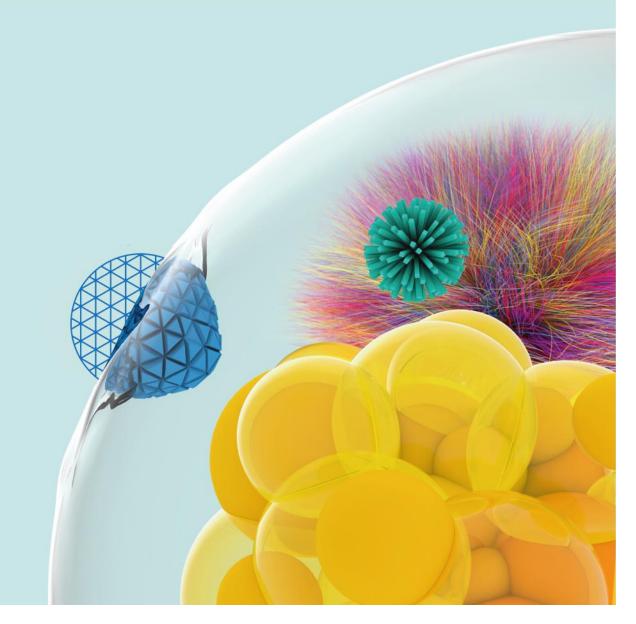




Customer Speaker: Liberty Global

Karen Langley

VP Digital Strategy & Architecture



Liberty Global - introduction



OUR BRANDS















OUR PRODUCTS







TV PLATFORMS



5G NETWORKS



GIGABIT BROADBAND



MOBILE

HIGHLIGHTS

MOBILE SUBSCRIBERS

FIXED LINE CUSTOMERS

GIGABITHOMES

OPERATING COUNTRIES IN EUROPE









HQS IN DENVER, LONDON & **AMSTERDAM**



44.2M

12.3M

30.3M









Liberty Global — our journey

Moving beyond telco



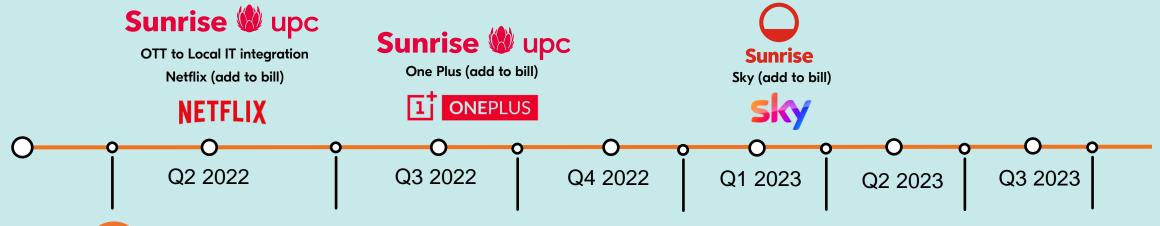
- The future is personalized orchestration of services
 - Our digital journey is a move from selling telco & cable services to selling more and we must move at speed.
- We see the importance of customer specific value propositions
 - We have a trusted billing relationship with our customers, but market trends are showing for all companies in the sector that average revenue per customer (ARPU) is reducing on current products. We are looking at ways to offer our customers more.
- Bango helps us provide more 'adjacent to telco' services to our customers faster
 - We have a short window with a saturated market of OTT providers establishing relationships with our customers



Liberty Global $\leftarrow \rightarrow$ Bango - where we are today

Through Bango, we've deployed OTT offerings rapidly





Creating a central gateway platform for all operating companies to use providing repeatable and rapid deployments of OTT partner offerings across our omnichannel — STB, Web, call centre or App



OTT to Local IT integration

Netflix, Disney +

STB integration (Netflix)







OTT to Local IT integration Netflix, Disney +

Prime Video







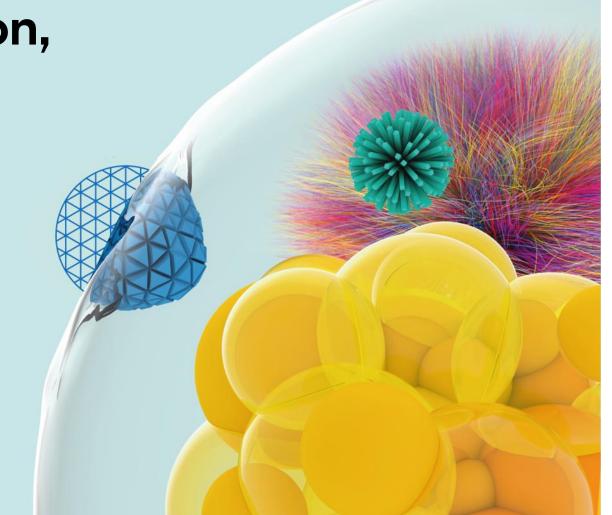


Tomorrow's connections today



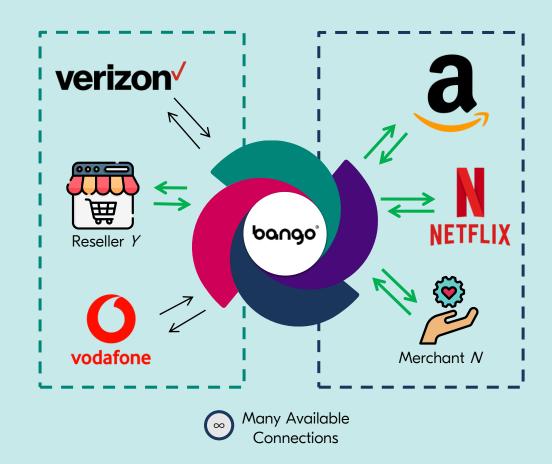
Onboarding, Integration, Migration

David HaughtonVP Engineering



Onboarding with Bango

- Merchants and payment/resale partners integrate to Bango through a standard API
- Connect once to activate multiple routes
- New services added are automatically available to all existing partners
- Platform design insulates partners from changes to 3rd party systems





Integrating with Bango



 Defacto standard in Billing and Resale

- 2. Simple design that abstracts complexity
- 3. Publicly accessible documentation



"Your position as the global leader in billing integration, simple API, speed to market and availability to support our team when and where they need it is what ultimately won you the business."





Integrating with Bango

Self certification for resellers

- ✓ Allows resellers to connect to the Bango Platform agnostic of any merchant — ensuring compatibility
- ✓ Bango defined test playbook
- ✓ Simulates merchant behaviors through the Bango Platform
- Provides example request and response formats
- ✓ Enables faster onboarding





Integrating with Bango

Self certification for merchants

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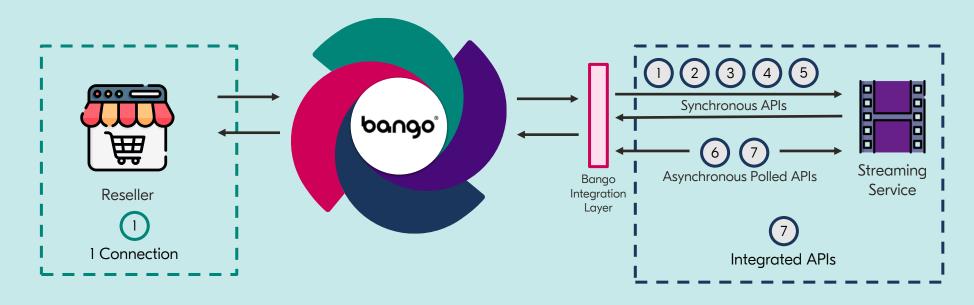
Bango integrations — for legacy systems, we can install an integration layer



- Build integrations against Bango's API specification
- 2. Ensure the Bango Platform is the data source of truth
- 3. Adhere to Bango's connect once, access many principle



Bango integrations abstract complexity



1 simple connection with Bango provides access to 7 merchant APIs



- "Bango has given us timely deliverables. Working diligently to turn things over within a short time frame."
- "When Bango delivers code, it is tested thoroughly before it is turned over to Verizon resulting in little to no issues. Bango's stance on quality is impressive."





Case Study: migrating Amazon routes from a competitor

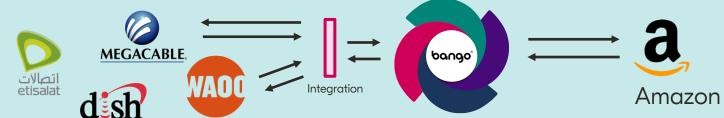
Step 1 — Develop integration layer



Step 2 — Validate & migrate existing transactions using Bango's batch processing service



Step 3 — Resellers update endpoint, directing requests to Bango





- "Bango de-risked this for us by a country mile."
- "Kudos to Bango as they were able to produce the most feasible solution in regard to the integrator migration."





Summary

- Simple, yet powerful API enabling our customers to integrate quickly
- Connect once, access many
- Bango Platform and tools make integration simple for everyone
- Successful track record with complex migrations

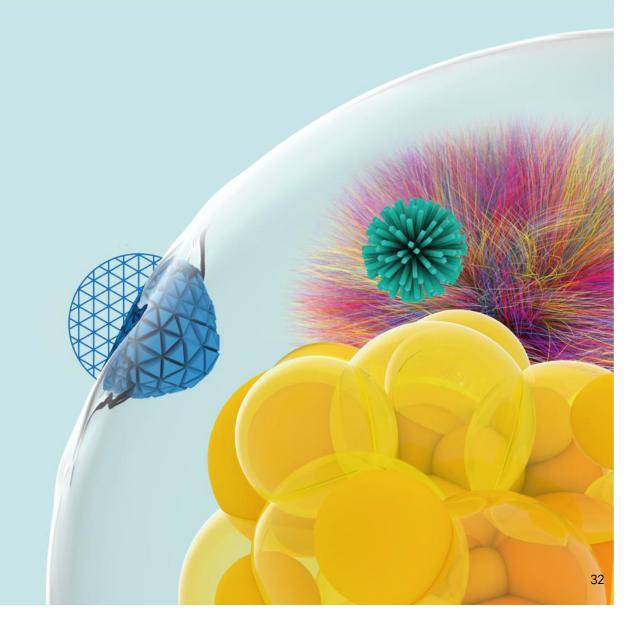




Product innovation

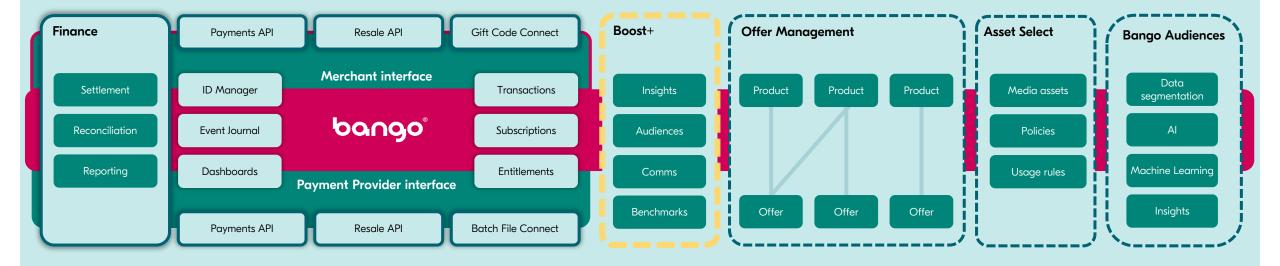
Cei Sanderson

Director of Product Management

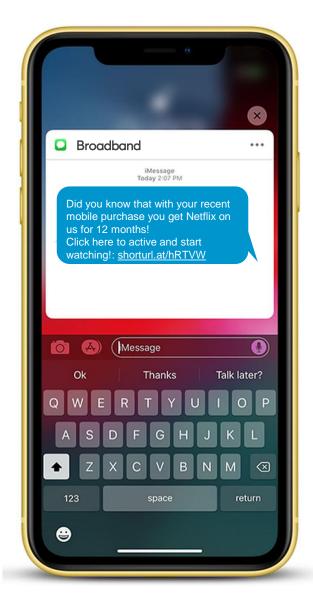


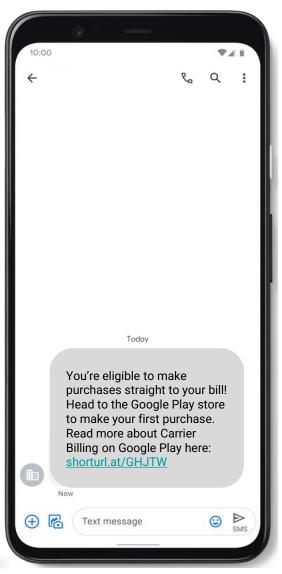
Boost+

Helping Bango partners acquire and retain more customers and grow revenue across their business

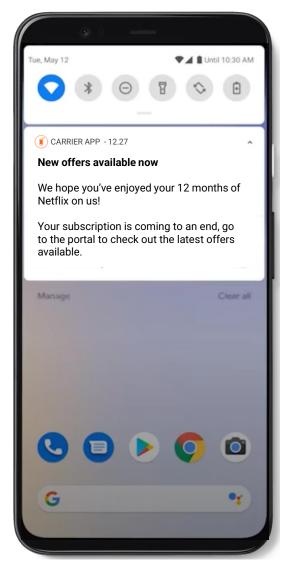






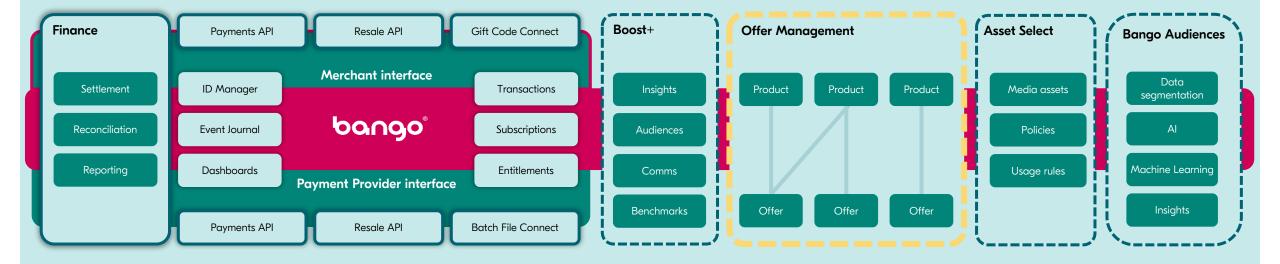








Bango Platform — offer management





Offer management

Offers on demand, the secret to super-bundles

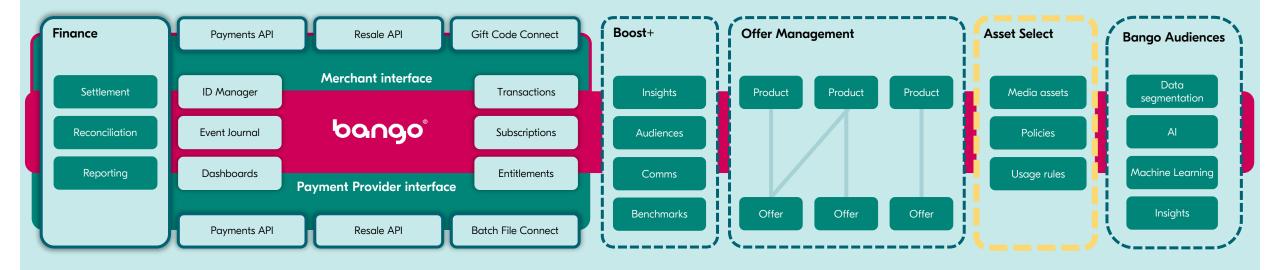
- ✓ The right offer for the consumer
- ✓ The right time to make the offer to the consumer
- ✓ The ability to make it happen in that time to market





Bango - asset select

Ensure the best media asset is selected for each product offer — every time





Asset select

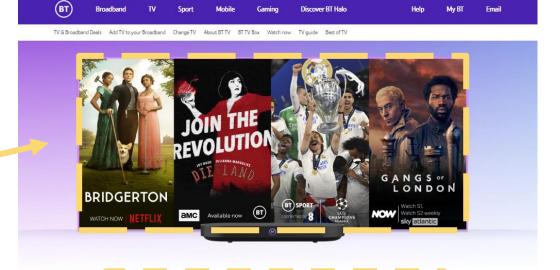
Ensure the best media asset is selected for each product offer — every time

- Co-branded campaign themed assets
- Targeted content
- Target offers and assets







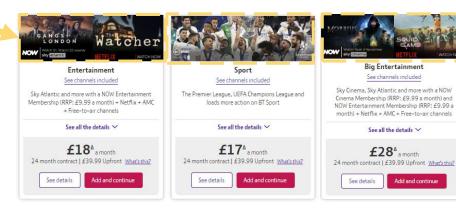


Add TV to your existing broadband package

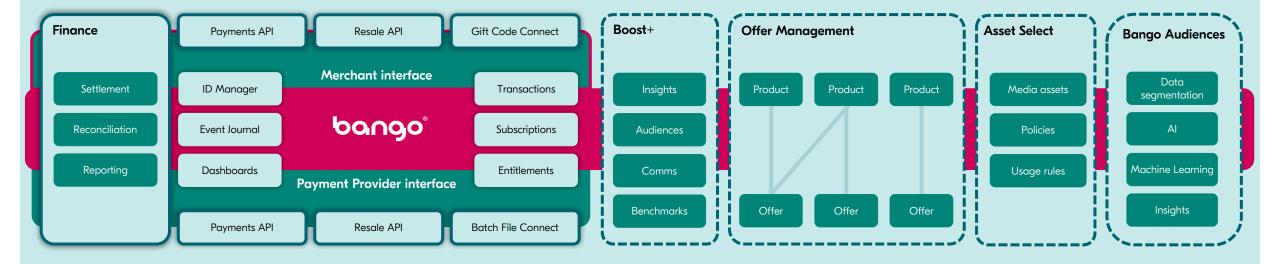
Add flexible BT TV to your Superfast Fibre broadband package. That includes Netflix, NOW Entertainment (RRP £9.99 p/m) giving you access to the latest Sky content on channels such as Sky Atlantic, Sky Max and Sky Witness and much more. Choose this TV package now and change it later, that's the beauty of flexible BT TV.

NETFLIX Already have Netflix?

NOW Already have NOW?



Bango Platform — data and insight

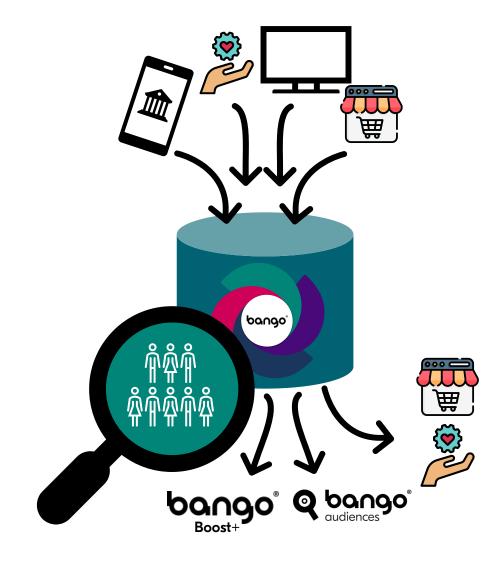




Predicting future purchase behavior

The Bango Platform provides unique, market leading data intelligence that drives;

- Superior payment conversion
- Higher take-up of bundled offers
- Marketing insights that enable purchase behavior targeting.



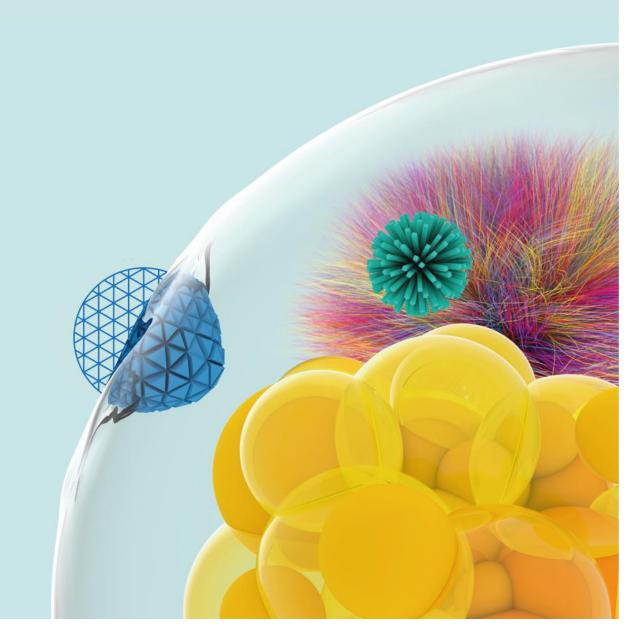




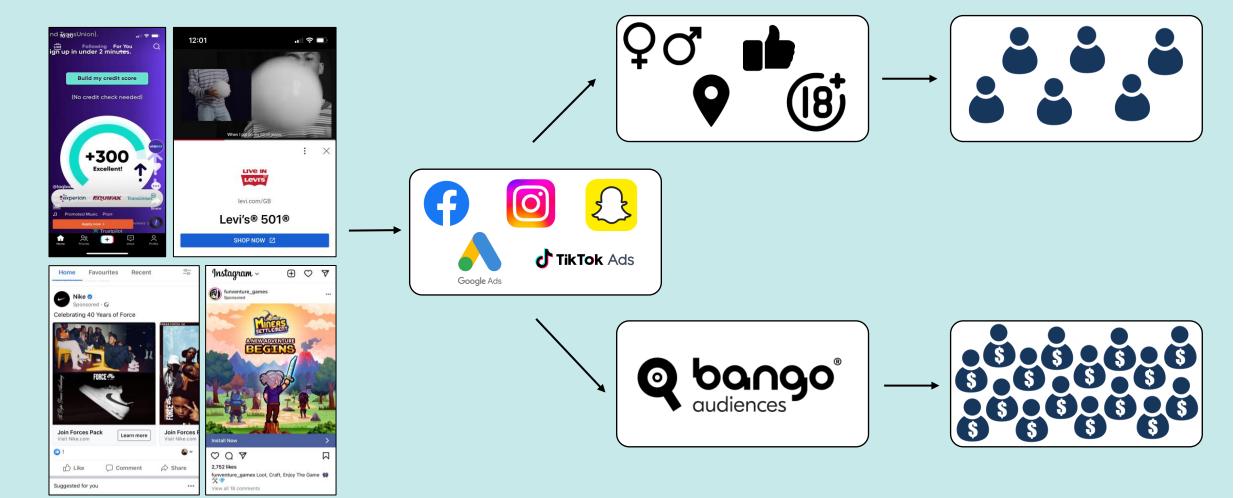
Bango Audiences

Dale Lawrence

Client Partner



Targeted in campaigns





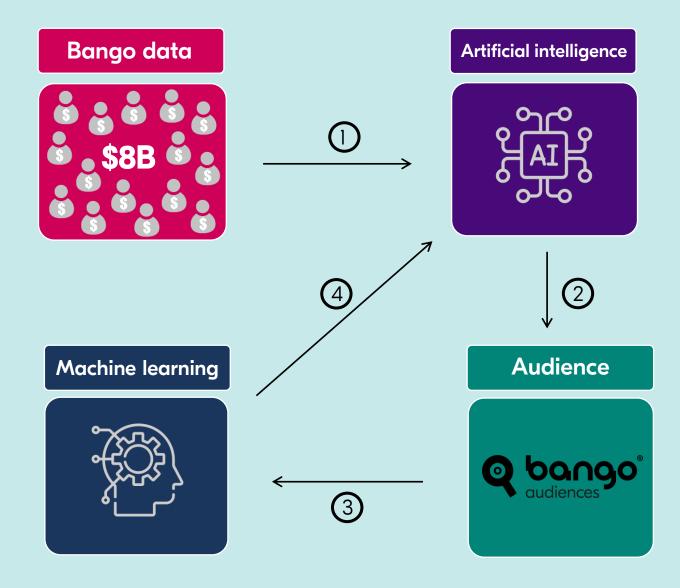
Technological advancements





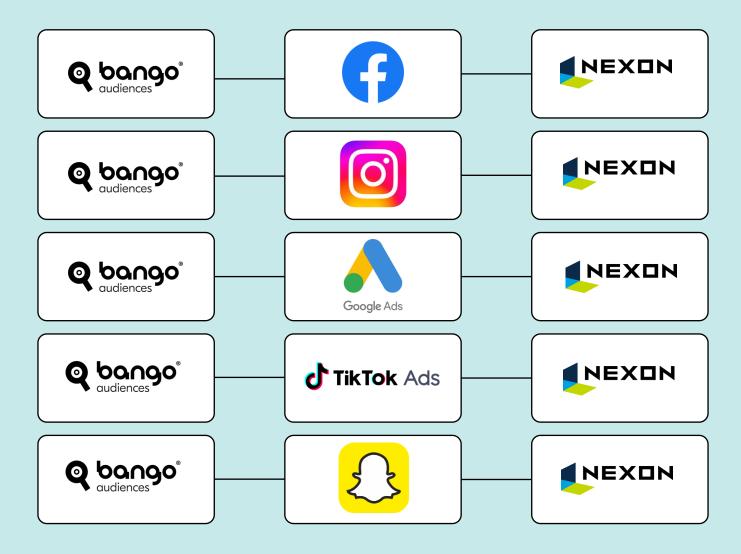
Audience creation

- 1. Feed data into our Al algorithm
- 2. Audience created and shared via our internal tool
- 3. Track audience performance
- 4. Enrich our algorithm with performance data



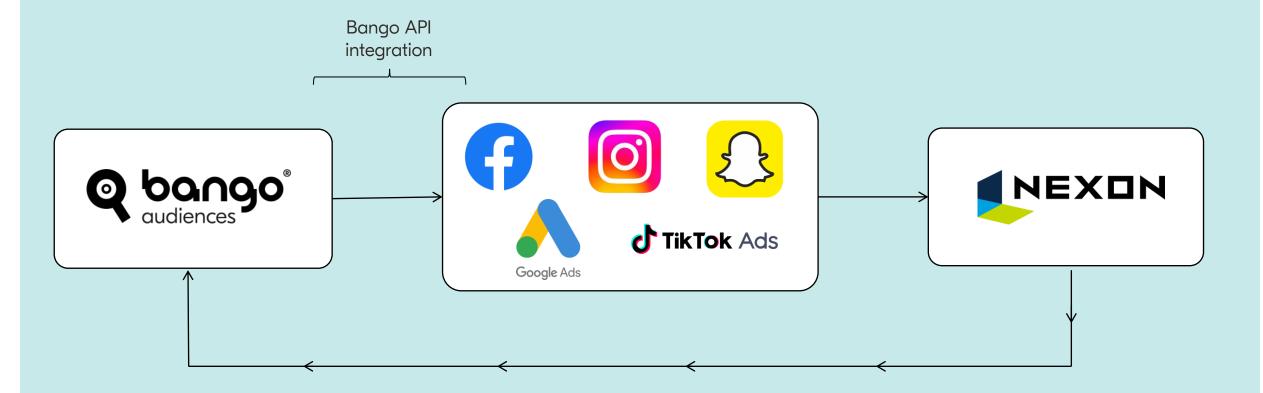


Historical Audience upload & sharing





Automated Audience upload & sharing





Data measurement & insight

35% of users who make a payment in a stock trading app also make payments or subscribe in a dating app

75% of all payments made in social casino apps are made between the hours of 6PM and 11PM





Key Bango advantages

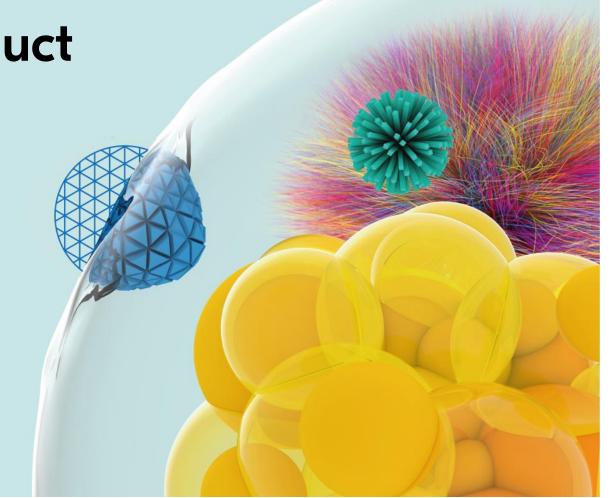
- ✓ Machine learning and automation increases audience performance
- ✓ Increased performance data consumption through API connections
- ✓ Data visualization and tracking uncovers unique Purchase Behavior trends
- ✓ Technological advancements and development are at the core of Bango Audiences growth





Fireside chat with Product Madness

Stefana Pesko, UA Team Lead **Rebecca Jamieson**, Head of IR, Bango

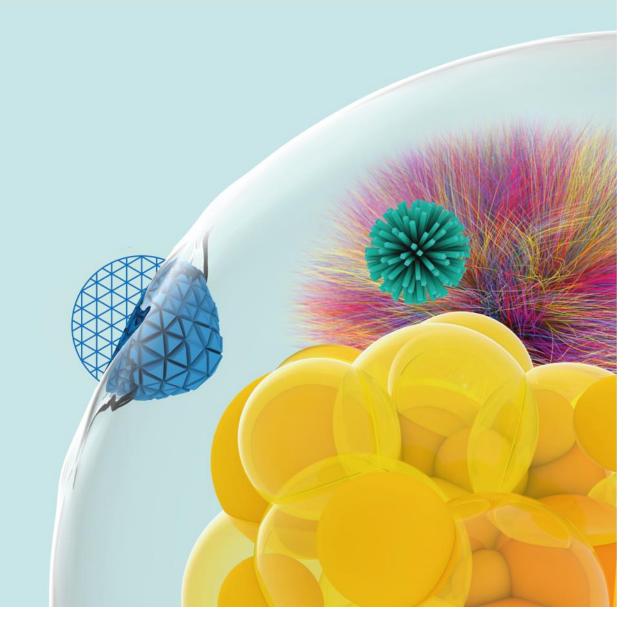




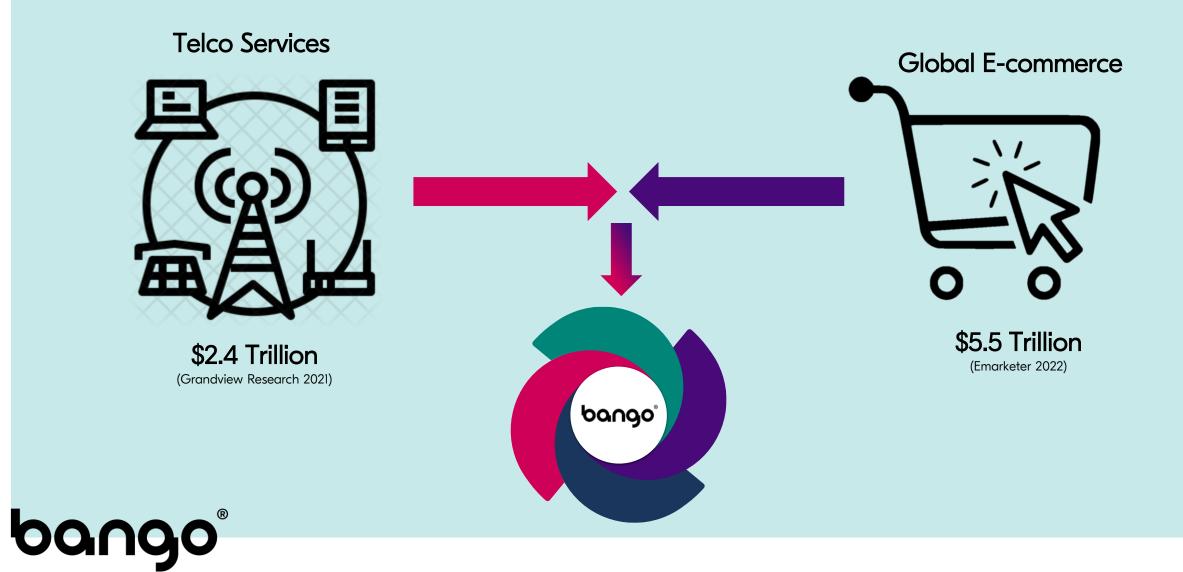
Market innovations drive growth

Anil Malhotra

CMO



Digital commerce meets mass market



OTT services — a growth story

Video on Demand



\$140B

(2027 GlobalMarketEstimates)



Live Sports Streaming



(2028, GlobalMarketEstimates)

Subscription Gaming





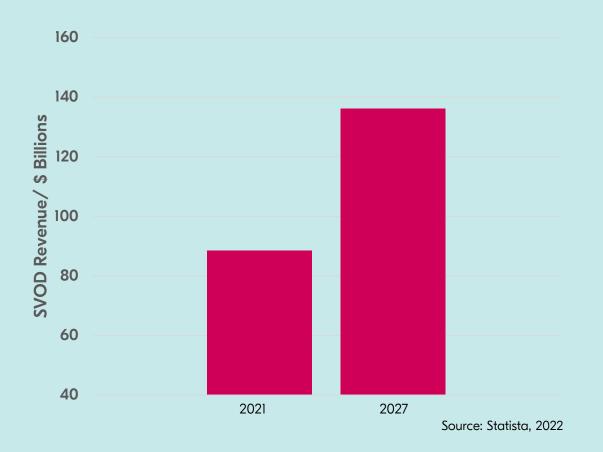
\$15B

(2027 Research & Markets)

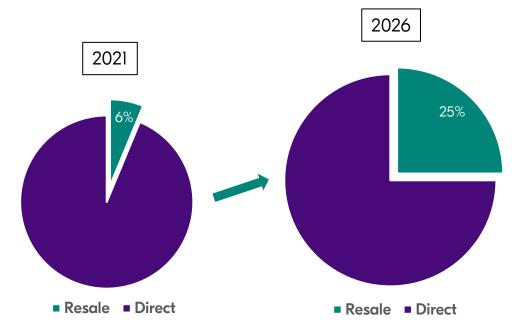


SVOD leading the charge

Subscription video on demand (SVOD) revenue is a big contributor to the growth of the subscription economy



- Resellers will increasingly become the point of sale for these services
- Bango technology and digital vending machine proposition means Bango is becoming a leader in this fast growth market



Source: Omdia, 2022

OTT drives carrier billing growth

Merchants want...

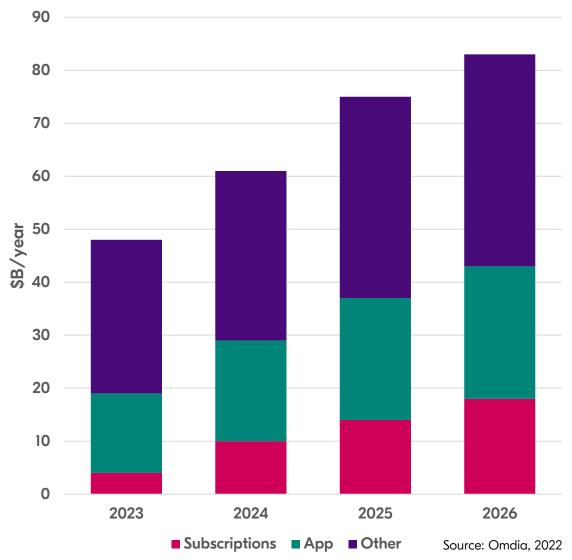
- Reach to millions of new potential customers
- Ready method of payment
- Predictable customer acquisition costs

Telcos want...

- Greater value and relevance to consumers
- Increased stickiness = higher customer lifetime value
- Attract new customers

bango®

Direct Carrier Billing Spend



The \$multi-billion value of payment data

- Online marketplaces are ahead of the curve when it comes to monetizing payment data
- Ad revenue in these market places = up to 9% of gross market value



Bango is enabling this functionality outside of marketplaces, making purchase behavior available to everyone



Return on ad spend drives developer marketing

App Store Spend



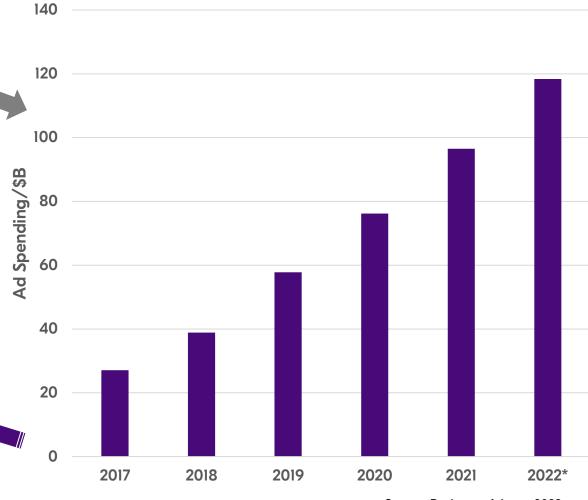
\$160 Billion
(Sensor Tower)

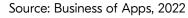


Growing app store spend drives app advertising spend

Higher app advertising spend grows customer numbers and increases app store spend

Mobile App Install Advertising Expenditures Worldwide







Summary

- Bango is strongly positioned at the convergence of online consumer spending with telco access to payments and distribution
- The Bango Digital Vending Machine is a unique and powerful technology for monetizing subscription products and services
- Resale of subscription offers through telco partnerships is driving growth in carrier billing revenues
- Purchase insights powering ad revenue growth for online marketplaces, Bango is the purchase insights platform for everyone else



Questions?

