Capital Markets Day London

5th February 2020



Support | Deliver | Evolve

"Keywords Studios is becoming the 'go to' provider for external development services"



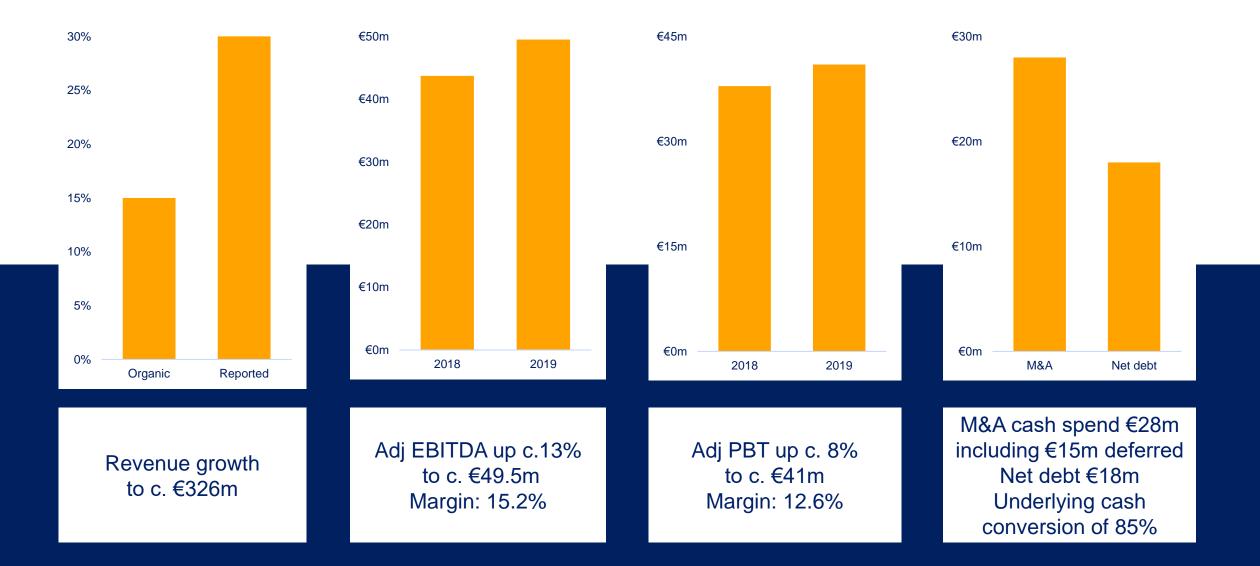
Opening remarks

Topics for today

- Service line insights
- Game development case studies
- Marketing services case studies

13:45	Registration
14:10	Opening remarks
14:25	Service lines insights
15:10	Panel Q&A
15:20	10 min Break
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17:00	CFO closing remarks & final Q&A
17:30	Refreshments

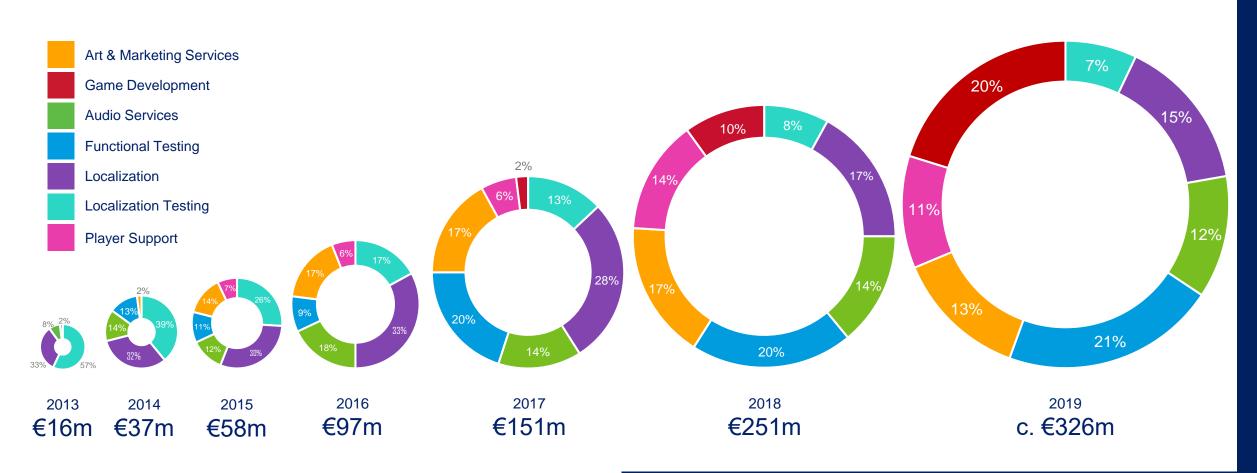
2019 financial highlights*



* As reported in FY19 trading statement. Estimated unaudited results

Better balanced business; higher up the value chain

- Increasingly integrated with game development pipelines
- Increasing numbers of client specific, dedicated operations
- Highly attached to game titles & client service infrastructures
- Moving beyond game production budgets to marketing spend



International scale and flexibility across markets is key

Vancouver

Seattle

Portland

Los Angeles

Austin



An average of c. 7,500 people on the payroll at peak times working in over 50 languages, more than 50 studios, in 21 countries, on 4 continents



Structural factors that power our growth

- Fast growing games industry c. 8% CAGR
- Trend towards outsourcing as the industry deals with an increasingly complex environment
- Supply chains are becoming more structured as the industry gradually matures
- Scale begets scale in an otherwise highly fragmented market
- Fragmented industry provides opportunities for selective consolidation

- Unique end to end global service platform
- Service lines that deliver strong organic growth
- Relationships with all the top games companies
- Close proximity to our clients around the globe
- Access to talent pools around the world
- Selective acquisitions to further support this growth

"Keywords Studios is becoming the 'go to' provider for external development services"

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Service line insights

Key messages

- Drivers behind each
- Barriers to entry
- Keywords strategic offering

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Keywords Art Services

Ashley Liu





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15 locations globally, 1,200 employees



Art Services: c. 13% of revenue



- Creation of video game art including but not limited to concept art, 2D and 3D art asset production & animation
- Marketing services from game conception, marketing trailers, to full campaigns

Revenue – 107% CAGR FY 2015 - 2019



Market size and proportion of art outsourcing*



* Based on management's estimates; excludes Marketing Services market



Barriers to entry

- Clients increasingly integrating their production pipelines with us. Requires top security. Audited by all the major Publishers/developers/IP holders such as Disney, EA, Microsoft, Activision
- Scale AAA games are getting ever larger. Clients need vendors of scale that can apply teams of 100+ per game. Few providers can do this
- Clients increasingly have fewer in house art talents, thus need a wider breadth of services to be delivered in unison
- Investment in latest production software, workflow and tools





Strategy

- Become the go to provider for Art Outsourcing
 - Growing capacity and service capabilities so we always have a solution for our clients
 - Seen as the industry innovators so are able to produce higher quality and volumes of art with less resources
 - Expand the dual shore model
- Build the world's first global games marketing agency. When Marketing services reaches €30m it will be run and reported separately

Outlook

- Further organic growth
- Acquisitions in marketing services to extend range of services and geographic reach



ContentKeywordsGame Development

Jamie Campbell







12 locations globally, 900 employees



Game Development: c. 20% of revenue



- Full game development, co-development & porting
- Proprietary software solutions for analytics
- Player behaviour research consulting

Revenue from FY 2017 - 2019



Market size and proportion of outsourcing*





Barriers to entry

- Credentials past success at working on top games
- Scale takes a village to develop an AAA game.
 Few studios of sufficient scale to do full development or co-development on major IPs
- Own research and development for key tools and middleware
- Experience of client proprietary game engines





Strategy

- Become the go to provider by increasing scale and geographic reach
- Further scale through new studio openings and scaling up of existing offices. Active acquisition pipeline focussed on additional geographies, expanded specialisations and expanding client base
- Studios developing their breadth of offerings over time

Outlook

- Continued expansion and recruitment to meet demand in all locations
- Further acquisitions to maintain a balanced offering



KeywordsAudio Services **Keywords Localization**

Fabio Minazzi







20 locations globally, 650 employees



Audio Services: c. 12% Localization: c. 15% Market size and p Percentage outsourced 50+ including large MLVs (text localisation) FY 2019 c. €326m Solve suppliers (audio localisation only)

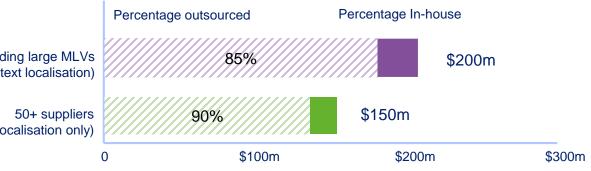
Multi-language voiceover recording & original language

Revenue from FY 2013 - 2019

- Music management, sound effects & related services
- Translation of in-game text/audio, cultural adaption



Market size and proportion of outsourcing*





Barriers to entry

- Network of specialized audio studios in the main target countries
- Complexity of production and talent management
- Sticky revenues by game title



Barriers to entry

- Multilingual capabilities. Unrivalled pool of video game translators built over 20 years
- Unique credentials across all genres and game sizes
- Access to own machine translation engines and software development increases gap between Keywords and others





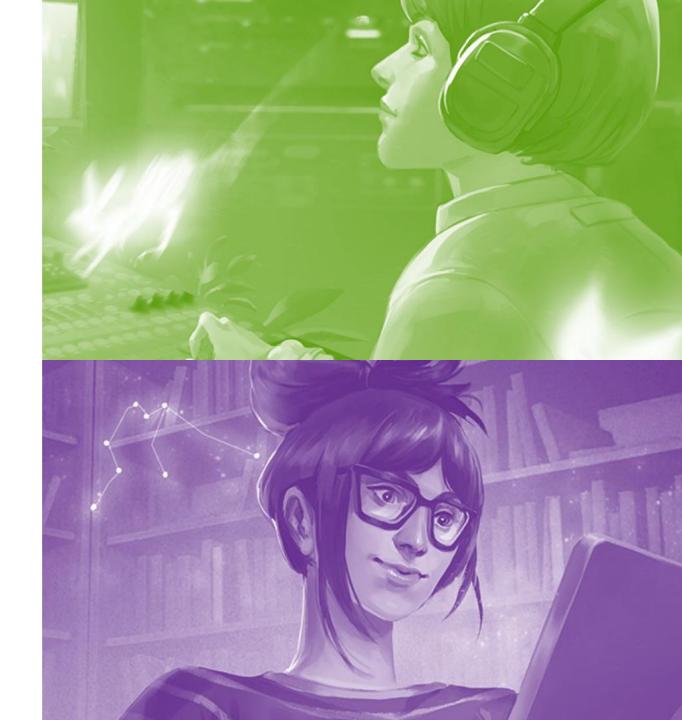
Strategy & Outlook

- Cross skill studios for games and film/TV
- Securing vendor status for online streaming platforms (3 studios currently certified by Netflix)
- Consider acquisitions in key locations



Strategy & Outlook

- Continue to lead the games localization market
- Acceleration of our efforts to bring machine translation to games now powered by proprietary AI, ML and workflow management software with Kantan integration
- Low acquisition component



Construction

Construction

Construction

Construction

Construction

Construction

Construction

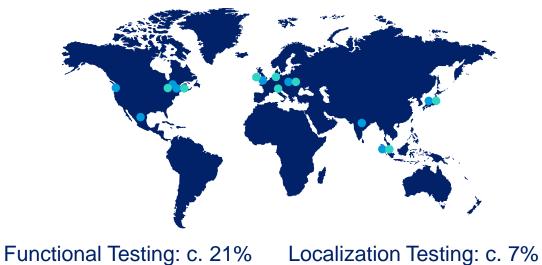
Mathieu Lachance

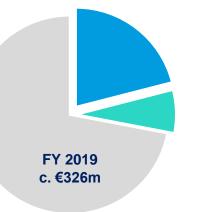


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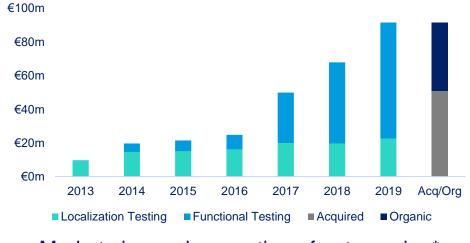
11 locations globally, 2,700 employees





- Quality assurance, discovery/documentation of defects
- Testing game compliance with manufacturers' hardware
- Testing out of context content in over 30 languages

Revenue from FY 2013 - 2019



Market size and proportion of outsourcing*





Barriers to entry

- Secure facilities, authorized among others by hardware manufacturers Microsoft, Sony and Nintendo
- Unrivalled scale in North America brings economies of scale and adds relevancy for major clients
- Very flexible operations



Barriers to entry

- Secure facilities, authorized among others by hardware manufacturers Microsoft, Sony and Nintendo
- Complexity of language, combined with flexibility of operations
- Specialism in games important given the complexity of localisation





Strategy & Outlook

- Continue to consolidate market leadership outside North America
- Further strong organic growth and improving margins



Strategy & Outlook

- Continued organic growth, expand in Katowice, and Ottawa
- Improving global resourcing flexibility through standardization of tools and processes, bringing increased revenue, uptime, quality and profitability



Image: ConstructionKeywordsImage: ConstructionPlayer Support

Fred Arens





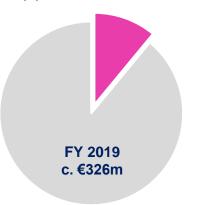
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11 locations globally, 1300 employees



Player Support: c. 11% of revenue

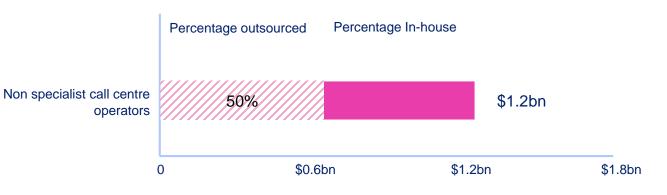


- 365/24/7, multilingual support for gamers
- Live operation, forum monitoring and moderation
- Social media engagement on behalf of the game brand

Revenue –182% CAGR FY 2015 - 2019



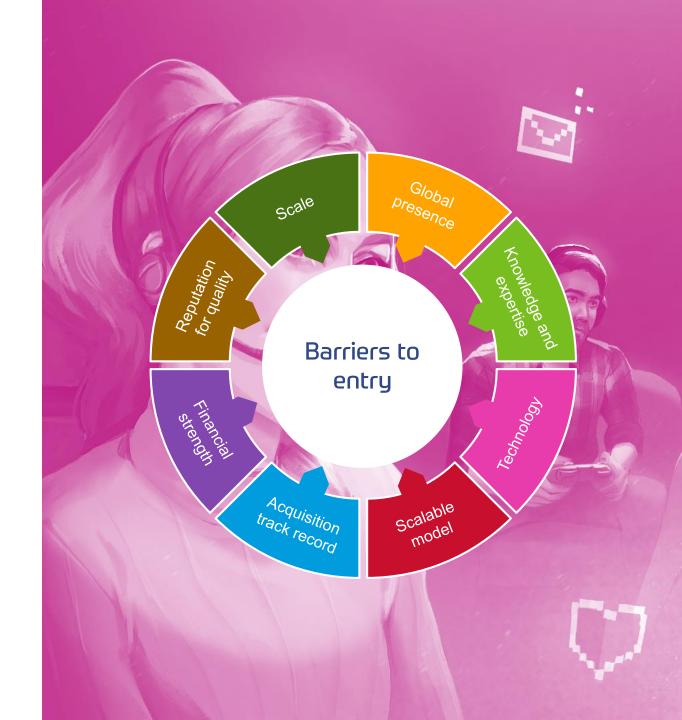
Market size and proportion of outsourcing*





Barriers to entry

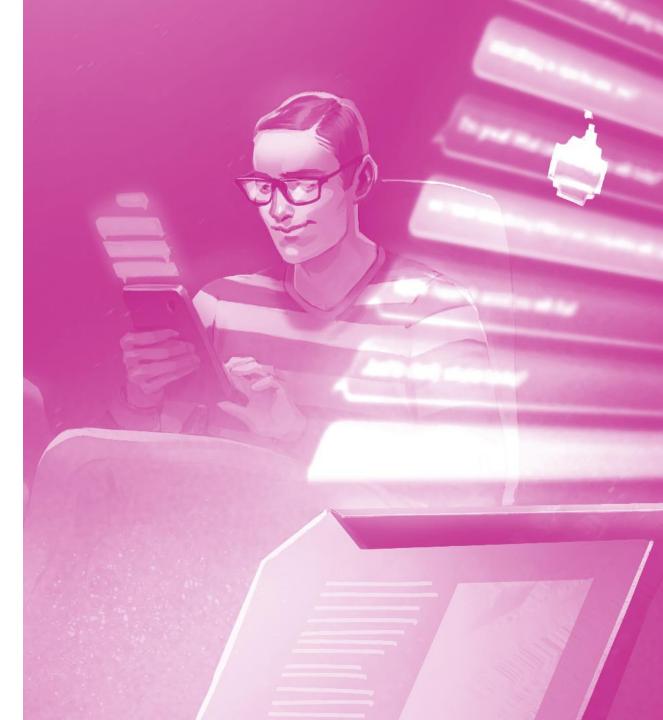
- Video game focus
- Credentials
- Own, secure facilities
- Multi lingual, 24/7 service
- Multi cultural, 24/7 service
- Multi Platform CRM skills





Strategy & Outlook

- Differentiate our video game specific service from other large providers in the wider customer support market
- Extend our service offering to cover more touch points of gamer engagement: community, social channels and VIP
- Consolidate our position within Video Gaming with strategic key account wins and growth
- Grow and strengthen our technological capability with tools that support our service discipline
- Augment AI and Machine learning with tech from Kantan



Q&A for service line presenters



Game Development

Case studies

- d3t Shenmue I & II
- Sperasoft Assassin's Creed Origins
- Studio Gobo Synced: Off Planet
- Electric Square Forza Street

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Game Development

A look at high-value services

Studio competency



Time / Experience / Skills mix

	Engineering Resources	Specialist / Niche Services	Porting	Co- Development	Full Game Development
Gamesim	Y	Y	Y		
Snowed In	Y	Y	Y		
d3t	Y	Y	Y	Y*	
Wizcorp	Y	Y	Y		Y
Sperasoft	Y	Y	Y	Y	Y
Studio Gobo				Y	
Electric Square				Y	Y

* Moving into Co-Development in 2020

Game Development

A look at high-value services

Porting 20 year old games to current platforms Jamie Campbell

Assassin's Creed Origins: Co-Development with Ubisoft Alan Van Slyke

Synced: Off Planet Co-Development with Tencent Xu Xiaojun

Full Client Development with Microsoft's Turn 10 Studios Jonathan Gibson



A KEYWORDS STUDIO

Porting 20 year old games to current platforms

Jamie Campbell

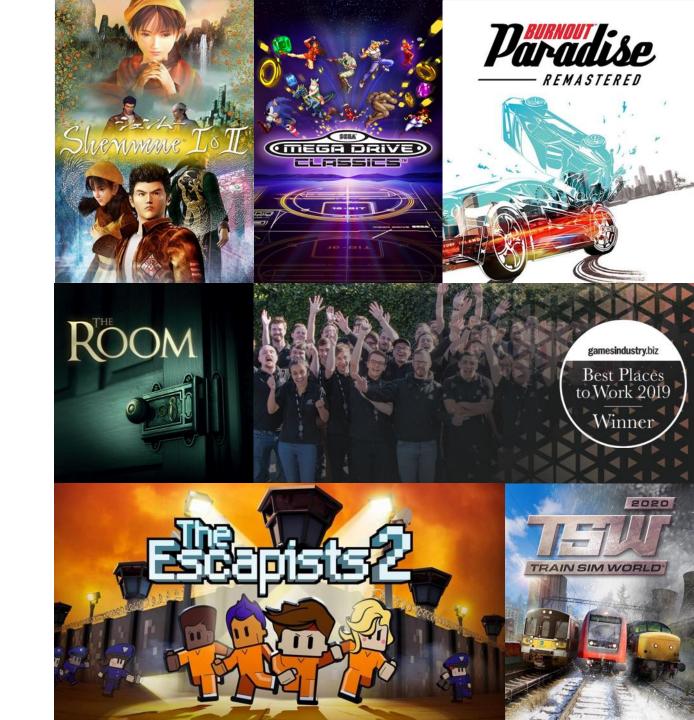


d3t

Location: Cheshire (UK) Project Type: Technical Multi-platform Port

Studio background

- Established in 2011 as 'pure' engineering
- Joined Keywords in 2017 with ~45 staff
- Current headcount ~85
- Still a strong technical bias
- Growing creative team





Shenmue I & II HD

Shenmue I

- Released in 1999
- Dreamcast
- At the time, the most expensive game ever made
- A "Life Simulator" and RPG

Shenmue II

- Released in 2001
- Dreamcast + Xbox

Challenges and victories

Assets

- Identifying and auditing source code
- Games within games
- Enormous open worlds
- …and hidden worlds

Technology

- Architecture
- Emulating hardware
 - Graphics
 - Audio





Challenges and ...

....workarounds 😊

Cut-scenes

Outcomes

Two 20 year-old games brought to life on PC, Xbox1 and PlayStation 4

- Metacritic User scores of 7.9, 8.1 and 8.3
- Significant upskilling of staff throughout the project
- Another branch up the value tree towards Co-Development

J-J-J. XBOXONE





S P E R A S O F T A KEYWORDS STUDIO

Assassin's Creed Origins: Co-Development

Alan Van Slyke





Company overview

15 years 5 offices in 3 countries

~ 600

Game development professionals

Sperasoft joined the Keywords family in 2017



















FRANCHISES





Co-Development CASE STUDY







ASSASSIN'S CREED ORIGINS: Co-Development

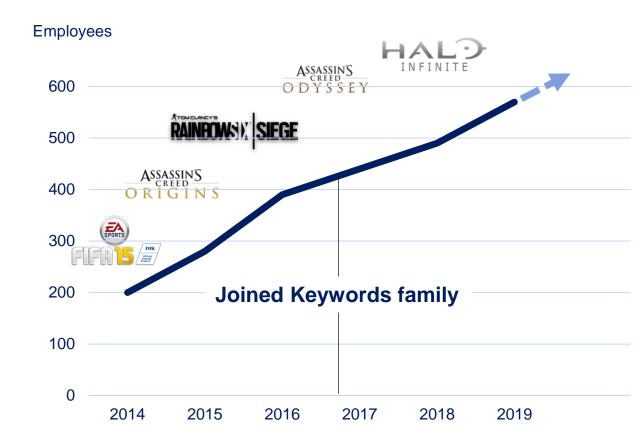


WAR ELEPHANT

Opportunities

- Serialized engagements
- Development cycle, and beyond
- 'Day 0' studio strategies
- Keywords umbrella

Growth





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Synced: Off Planet Co-Development with Tencent

Xu Xiaojun



Synced: Off Planet

Competitive multiplayer

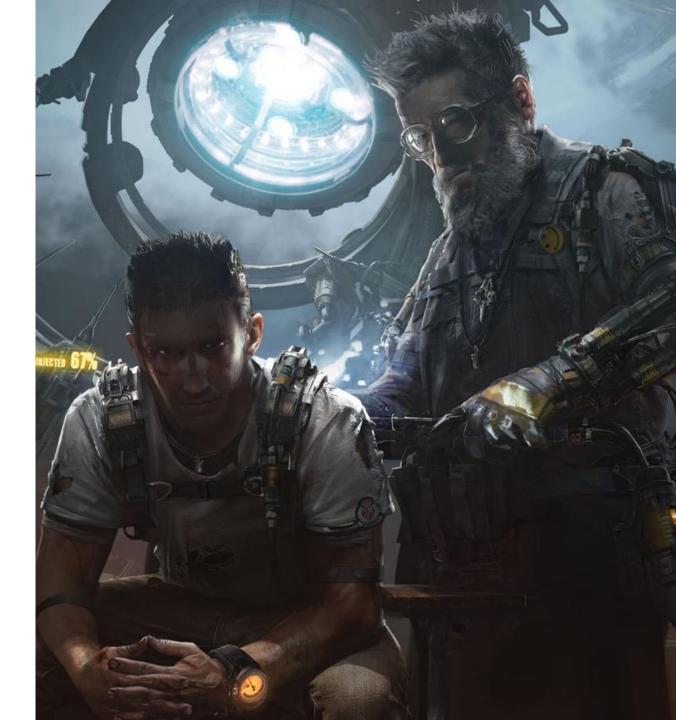
- 50 Players
- 1000+ AI Cyborgs (Nanos)
- Escape earth

Key differentiator - narrative

- Earth is infected by the growing number of Nanos, your only hope is to find a space shuttle and leave the planet.
- Different characters meet in Haven and story develops between matches

Players in the west perhaps don't realise how big Tencent is, and its development capabilities: SYNCED may well be the game that changes this, and the NExT step towards its global gaming domination.

- KOTAKU





Studio Gobo

Co-Development

- Cross disciplinary
- Creative led engagement

Mandates on Synced

- Haven Player's homestead, where the story and characters develop
- Narrative, progression and monetization
- New game mode
 - One third of the game content

New Milestone

- Studio Gobo's first engagement with China
- Cross collaboration with SPOV
- Project in production with live service post release
- Long term partnership and potentially more collaboration opportunities with other Keywords teams

"[Gobo] are really experienced. [Working with them], we can produce more content and at the same time use their experience to help us, and their expertise and international talent pool."

 Clark Yang, creative director from Tencent, speaking to Gameindustry.biz





Full Client Development with Microsoft's Turn 10 Studios

Jonathan Gibson



Electric Square studios





Locations: Brighton, Leamington Spa, Singapore Staff: 150 (targeting 200 by end of 2020) Focus: Full Game Development Expertise: Racing, Mobile and Free To Play

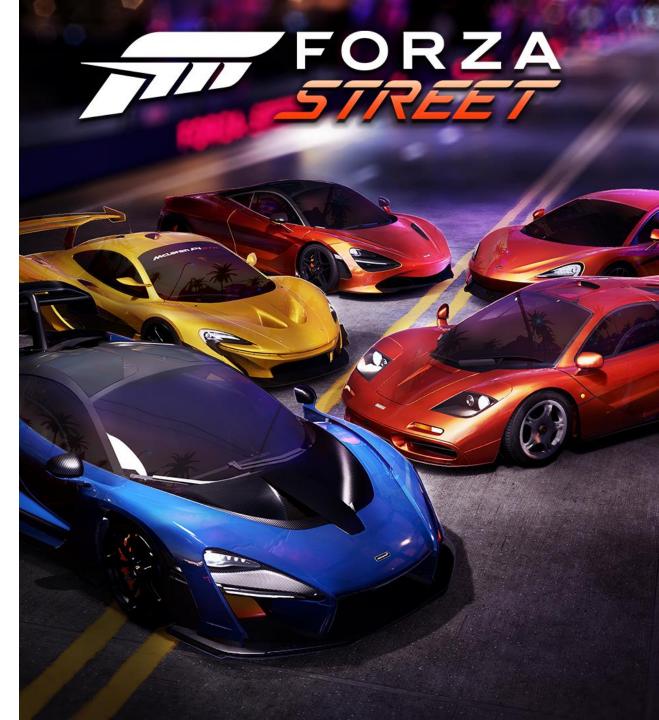
Partners include:

- Microsoft
- Mattel
- Amazon



Forza Street

- Commissioned by Microsoft's Turn 10 Studios
- Free-to-play version of their hit franchise, designed for a casual audience
- Already out on Win10 mobile to follow soon
- Full client development by Electric Square



Why Turn 10 chose Electric Square

- Rich racing game heritage
- Prior experience developing mobile and free-to-play games
- Successful prototype phase lead to full development contract



Our responsibilities

Full client development:

- Concept through to Launch
- Art, Design, Programming, Production, QA, Audio, Analytics and Community Management
- Post-launch Live Operations

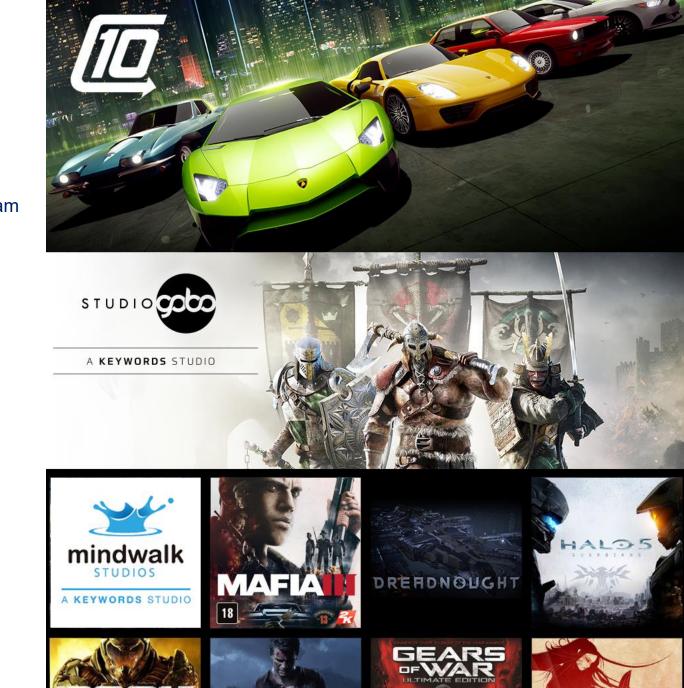


Working with Microsoft

- Close partnership with Turn 10's Forza Street leadership team
- Weekly 1-2-1 and team meetings over Skype
- On-site visit every 6 weeks.

Internal collaboration

- Initial team seeded by Studio Gobo
- QA support provided by Keywords
- Environment Art supplied by Mindwalk



Q&A for Game Development presenters



Marketing services

Case studies

- ICHI Worldwide Creative Agency
- Fire Without Smoke How to make a trailer
- The TrailerFarm Happy Together

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ICHI Worldwide

Liz Corless



ICHI Worldwide

- Creative agency founded in 2009, offices in London and LA
- Core focus on games, but also work on leading entertainment and youth brands
- Strategy, branding, design, video and social content
- Repeat work as important as new business: our first client is still a client



Typical client engagements

Dual process, singular approach

Early-stage Engagement

Working on a title up to three years prior to release

Strategy Proposition Branding Creative consultants throughout game development

Well positioned for creative executions Standalone or Campaign Work

Brief for delivery within 6-9 months

Embracing a core idea/message High production value Audience cut-through/ engagement

Strategically Armed Creative

Clarity of concept Brand cohesion Creative accountability

Metro Exodus

- Initial strategy/branding/artwork began Q4 2016
- Close collaboration throughout development process
- 360 launch campaign assets Q2 2019



SPECIAL WEAPONS

WEAPON CLASS



Standalone creative

CSR2: Legends

- Isolated asset without a campaign
- Clear distillation of nostalgic message
 = clear takeaway
- High production value, high financial performing asset





Launch campaign creative

Blood & Truth

- Supporting a wider campaign with a marquee asset
- Strategic mixture of live action and VR gameplay to communicate immersion
- Repurposing marquee asset to create more content value





Joining Keywords

Same ICHI, but different

- We'll continue to develop our brand, the team and our core capabilities within the Keywords group
- Integration with Keywords allows us to expand our client base
- Greater collaboration with companies within the Keywords family equals better synergies
- We expect to expand more aggressively in 2020 and beyond



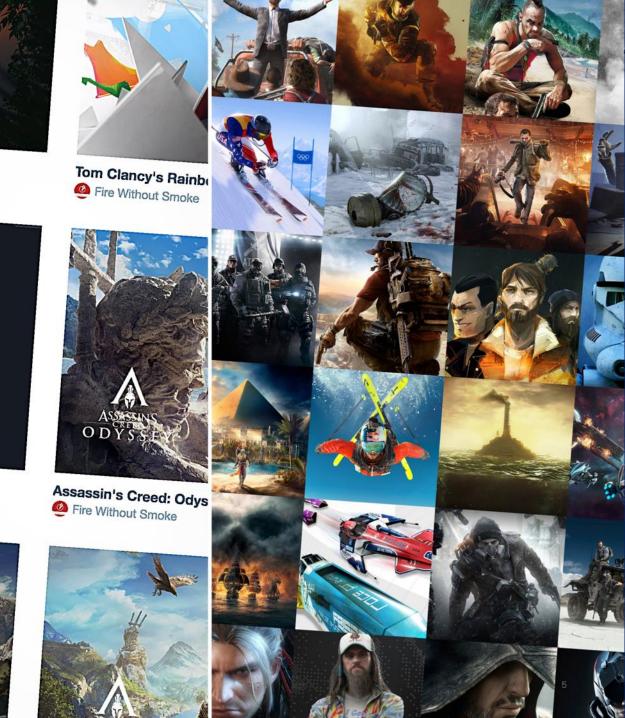
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How A Trailer Is Made

Richard Parnes



Fire Without Smoke

Who We Are

We Love Games

- 50+ passionate gamers based in London and Montreal.
- Hundreds of thousands of game hours played.
- Thousands of pieces of game content created.
- Hundreds of happy clients.
- Zero staff turnover.

What We Do

End to End Creative Services



In House Production Services

Script & Copywriting Art Direction Narrative & Lore Development Story boarding

Social Media Campaigns Brand Activation Events Localisation Print & Web Design Motion Graphics CG & Cinematics 3D Modelling In-Game Cinematography Sequence Editor Capture Video Editing Live Action

Technical Support Marketing Camera Development Build Testing

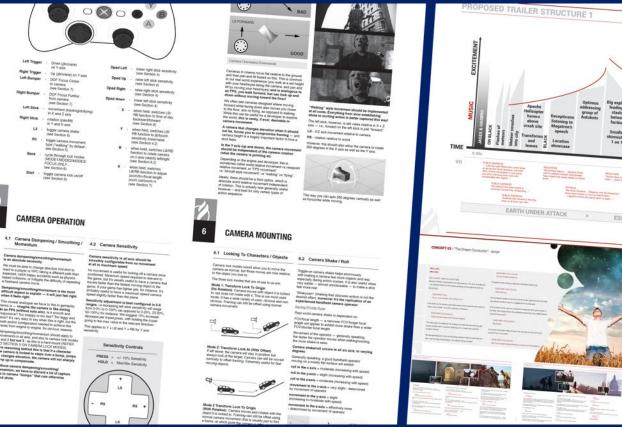
What is unique about us making a gameplay trailer?

We make the movie We're the scriptwriters We're the actors We're the director We're the audience

Fire Without Smoke

Thinking Like a Film Maker

The Camera



The Creative

The Team

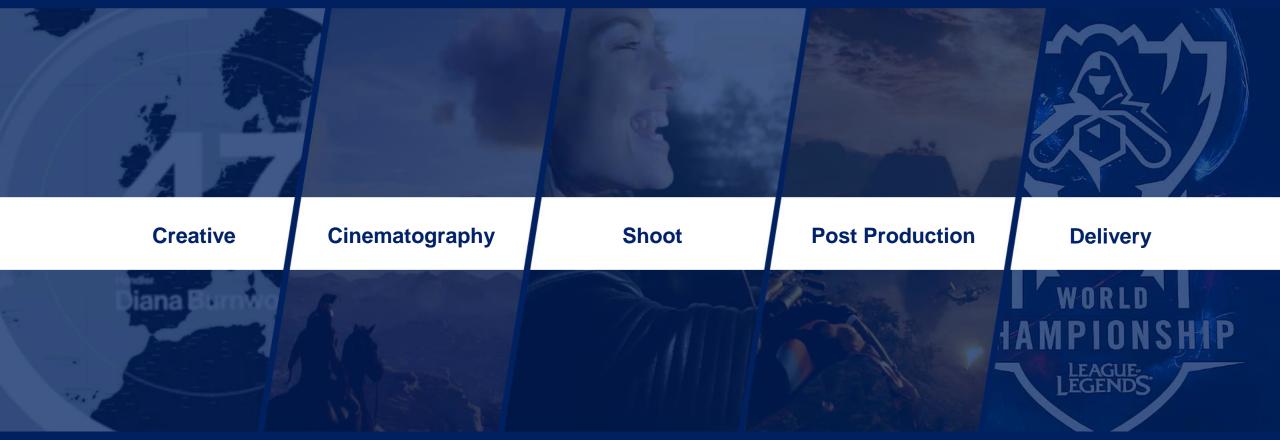


In Engine Expertise



Fire Without Smoke

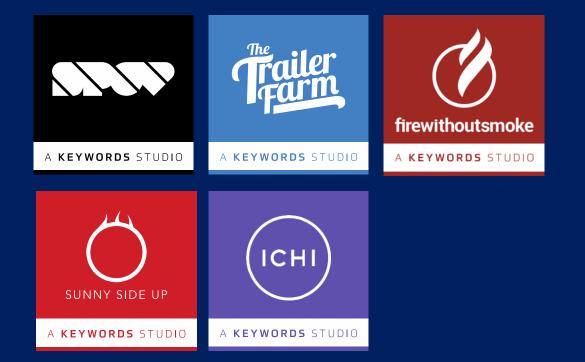
The Timeline



Fire Without Smoke

Current Production

Future Production Possibilities



















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Happy Together delivering an award winning game trailer

Hollie Bedwell



We are a full-service creative agency and production house specialising in video production for the games industry

Founded: 2011 Team Size: 25 in-house Location: Brighton (United Kingdom)



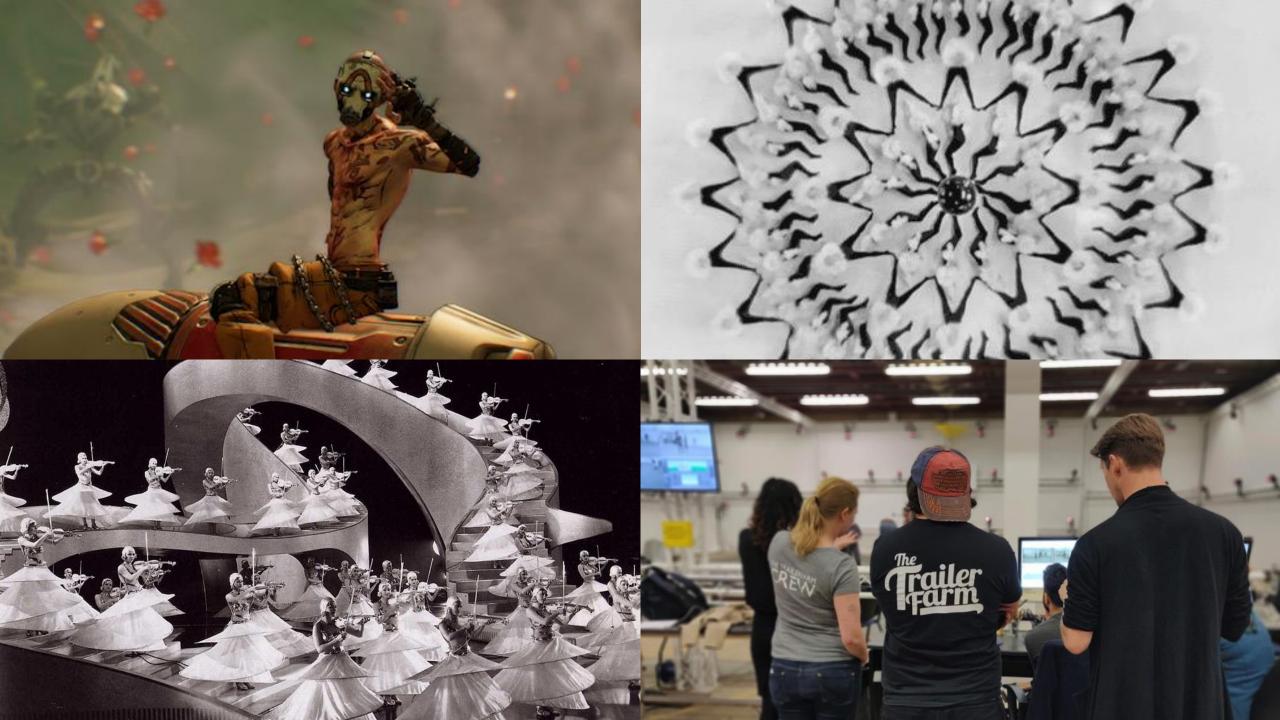


The story of Happy Together

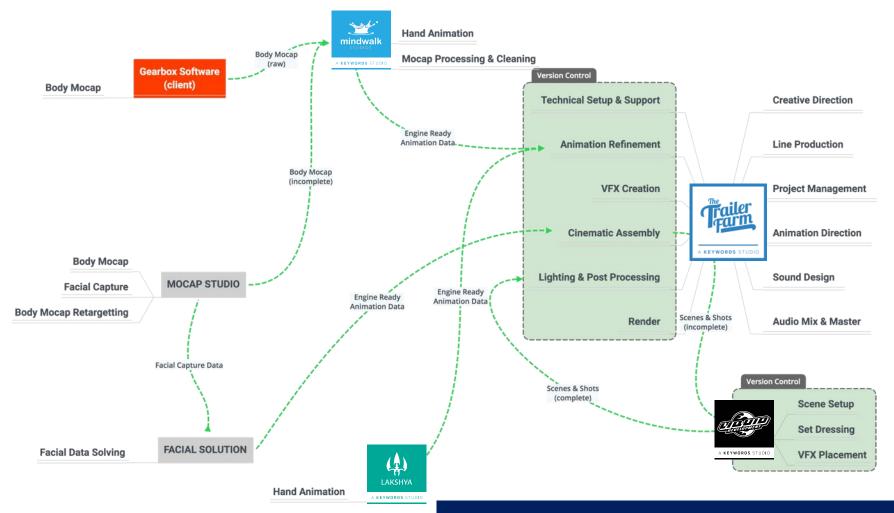
Character trailers - project timeline

Sept 2018	Introductions & studio overview		
Mar 2019	2D animatic brief		
Early Apr	3D blockout		
Late Apr	Full trailer project		
End Jun	First delivery		
End July	Final delivery		

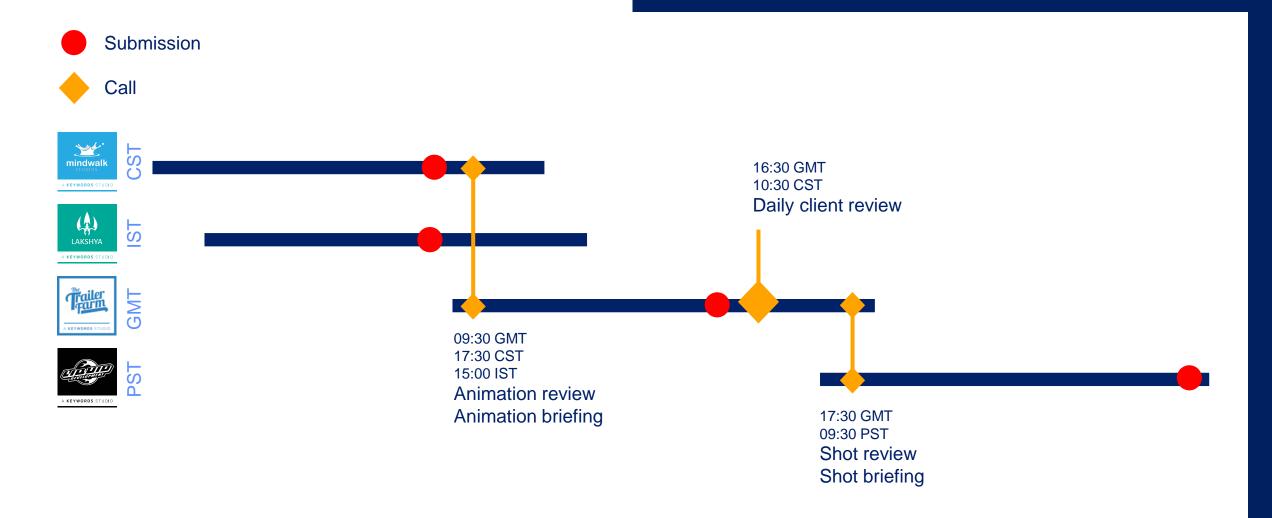
 $\leftarrow Final endcard for Borderlands 3 character trailers$



Studio pipeline



24 Hour production



We did it!

Quantitative

- Scaled team size from x14 to x40 Keywordians
- Safeguarded 27 other projects and clients that were in production in the studio
- The trailer won two 2019 CLIO Entertainment awards:
 - Silver, Games: Audio/Visual, CGI Trailer
 - Bronze, Games: Audio/Visual Technique, Sound Design

Qualitative

- We worked with trusted studios from within the family
- Fostered key inter-studio working relationships, and friendships!
- Set a level of quality and competency with Gearbox Software

Q&A for service line presenters



CFO closing remarks

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2019 financial highlights*

FY19 Revenue of approximately €326m (+30%) 15% organic growth 8 acquisitions in 2019 €13m for acquisitions in the year

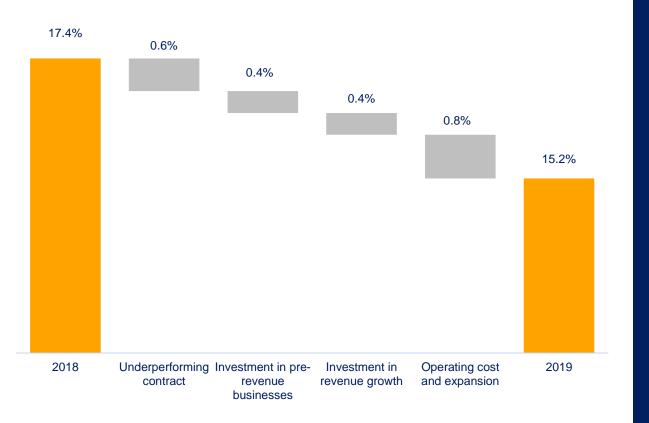
Adj. EBITDA of approximately €49.5m (+13%) Adj. EBITDA margin 15.2%

Adj. PBT of approximately €41m (+8%) Adj. PBT margin 12.6% Total M&A spend of €28m (Acquisitions and €15m in deferred considerations)

> Net debt of approximately €18m (up from €9.0m in H1, €0.4m in 2018)

* As reported in FY19 trading statement. Estimated unaudited results, excluding the impact of IFRS 16

2019 EBITDA* margin bridge



2019 impacts

- Underperforming fixed price contract finalised at the end of 2019
- Investment in pre-revenue businesses
- Investment to support strong revenue growth both short term demand and longer term expansion
- Investment in operating costs improved technology, strengthened management and additional functional support

2020 targets for progress

- Underperforming contract finalised at the end of 2019
- Pre-revenue businesses continue to be evaluated
- Continued investment in growth should show signs of leverage in 2020
- Leverage OPEX investments through 2020

2019 cash flow*

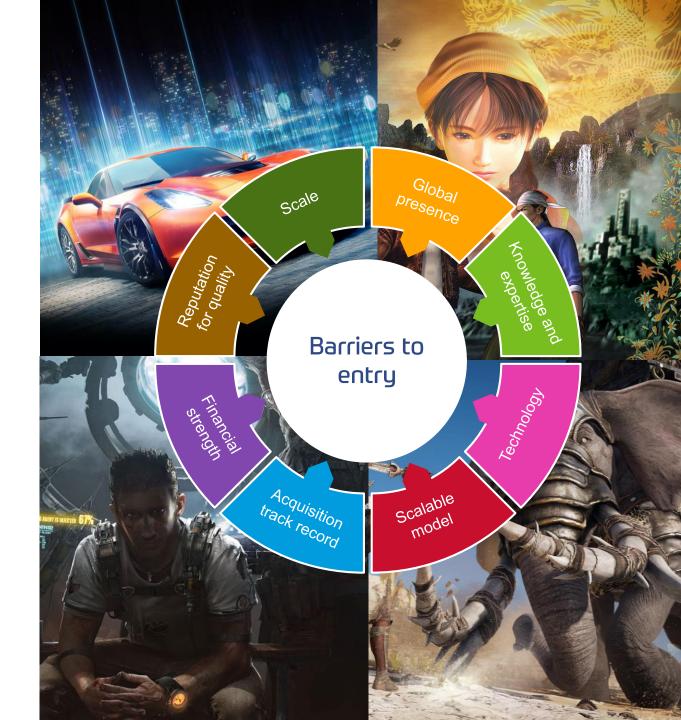
€m	2019		2018	_	
	FY		FY		Movt
Adjusted PBT	41		38		3
Movement in MMTC / VGTR	(6)		(0)		(6)
Capex	(14)		(11)		(3)
Other	(7)		(6)		(1)
Adjusted free cash flow	14		21		(7)
Acquisition spend	(32)		(31)		(1)
Dividend	(1)		(1)		(0)
Underlying increase in debt	(19)		(11)		(8)
FX and other items	1		0		1
Increase in net debt	(18)		(11)		(7)
Opening net debt	(0)		11	_	(11)
Closing net debt	(18)		(0)		(18)
Adjusted free cash flow	14	46%	20	65%	
Add back MMTC / VGTR	6		0	_	
Adjusted free cash flow before MMTC / VGTR	20	66%	21	66%	
Add back capex ahead of depreciation	6		6	_	
Underlying free cash flow	26	85%	27	84%	

Key movements

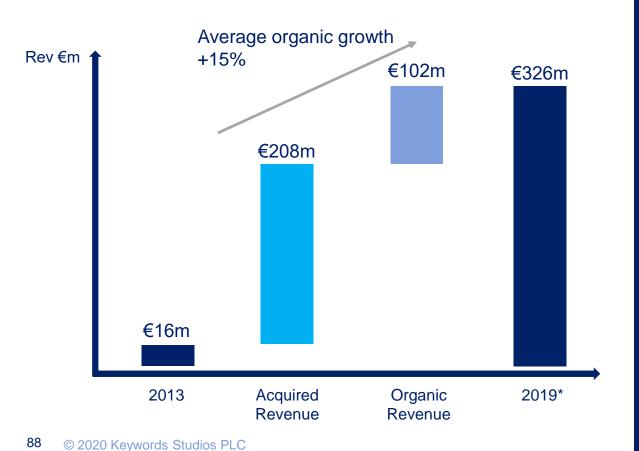
- €7m reduction in adjusted free cash flow after tax driven by:
 - €6m timing difference for MMTC/VGTR credits reflecting the strong growth in Canada and the UK
 - Capex spend expanded as we invested behind growth
- Acquisition and integration spend of €32m including €15m deferred consideration for prior year acquisitions
- Increase in net debt of approximately €18m versus €11m in 2018
- Increase in underlying adjusted free cash flow conversion of 85% up from 84% in the prior year

Barriers to entry

- Scale Large clients need large suppliers
- Global presence proximity to talent and clients, multiple time zones
- Knowledge and expertise Breadth and depth of capability
- Technology Regular investment, security
- Scalable model flexibility to meet clients needs
- Acquisition track record disciplined, build out the platform, cultural fit, integration
- Financial strength performance, stability and resilience
- Reputation for quality culture of delivery



Building a global service delivery platform though M&A and organic investments



44 targeted acquisitions across 18 geographies:

- Building out global service line platform
- Achieving scale (e.g. Functional Testing in North America)
- Geographic proximity to customer and labour pools

Disciplined and targeted investments - €208m of 'acquired' revenue at ~1.2x revenue multiple

Complemented by strong organic revenue growth through organic investments and benefits of service platform

Keywords structural growth drivers

- 2020 console cycle
- Organic growth
- Selective acquisitions
- Building platform

- Platform
- Integration
- Scale

"Keywords Studios is becoming the 'go to' provider for external development services"

Final Q&A

