



# Polypipe Group PLC

Strategy Update

9<sup>th</sup> May 2018



# Agenda

1 WELCOME

2 STRATEGY

3 BUSINESS REVIEW

4 FINANCIALS



# Welcome



**MARTIN PAYNE**

*Chief Executive Officer*

Member of Nomination Committee

Appointed as Chief Executive Officer on 2 October 2017

Previously Chief Financial Officer, from May 2016



**GLEN SABIN**

*Chief Operating Officer*

Appointed to the board on 2 October 2017

Joined the group in November 2004 as Managing Director of Polypipe's UK Civils business



**PAUL JAMES**

*Chief Financial Officer*

Appointed as Chief Financial Officer on 5 March 2018

Prior to Polypipe, served as Group Financial Controller of Dixons Carphone plc.

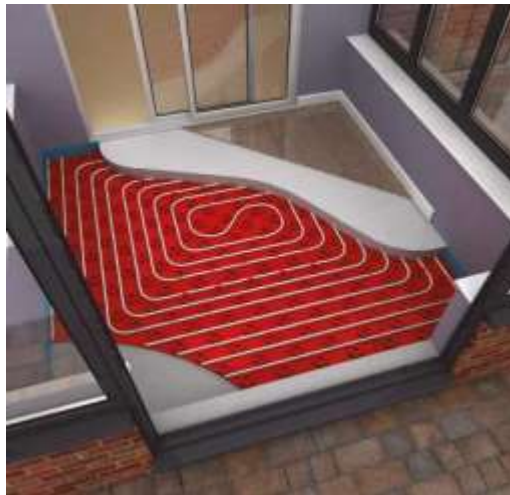
## SUGGESTED TIMING

15:00	Welcome & introductions
15:05	Vision, strategy & new priorities
15:50	Our businesses today
16:20	Financials
16:40	Wrap-up & Q&A
17:00	Reception



# Who we are

## Residential



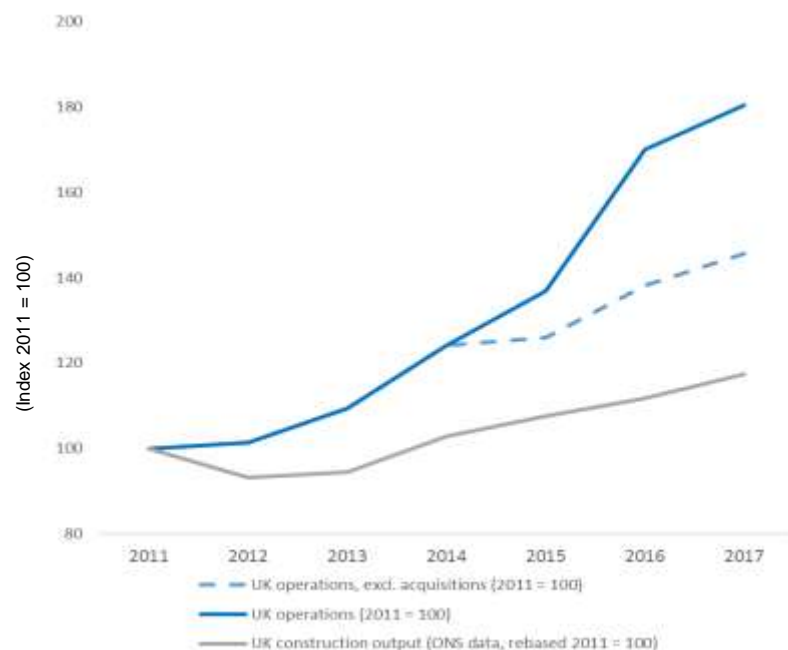
## Commercial & Infrastructure



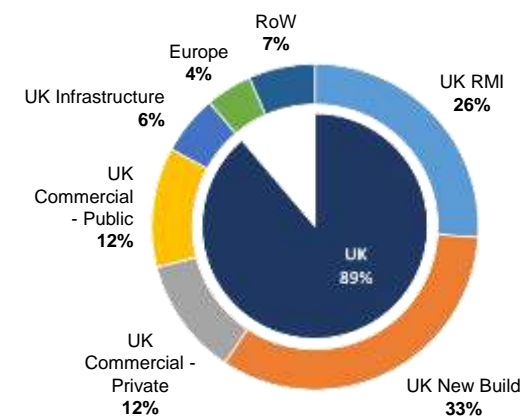
# Who we are

- Diversified sector exposure across UK construction
- Track record of growth ahead of the market
- Consistent profitable growth and industry leading margins

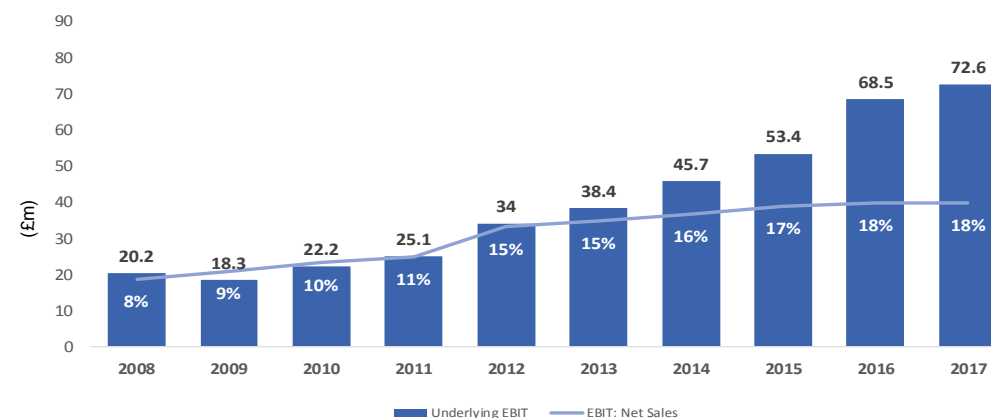
## UK sales growth ahead of the market



## 2017 Demand drivers



## EBIT





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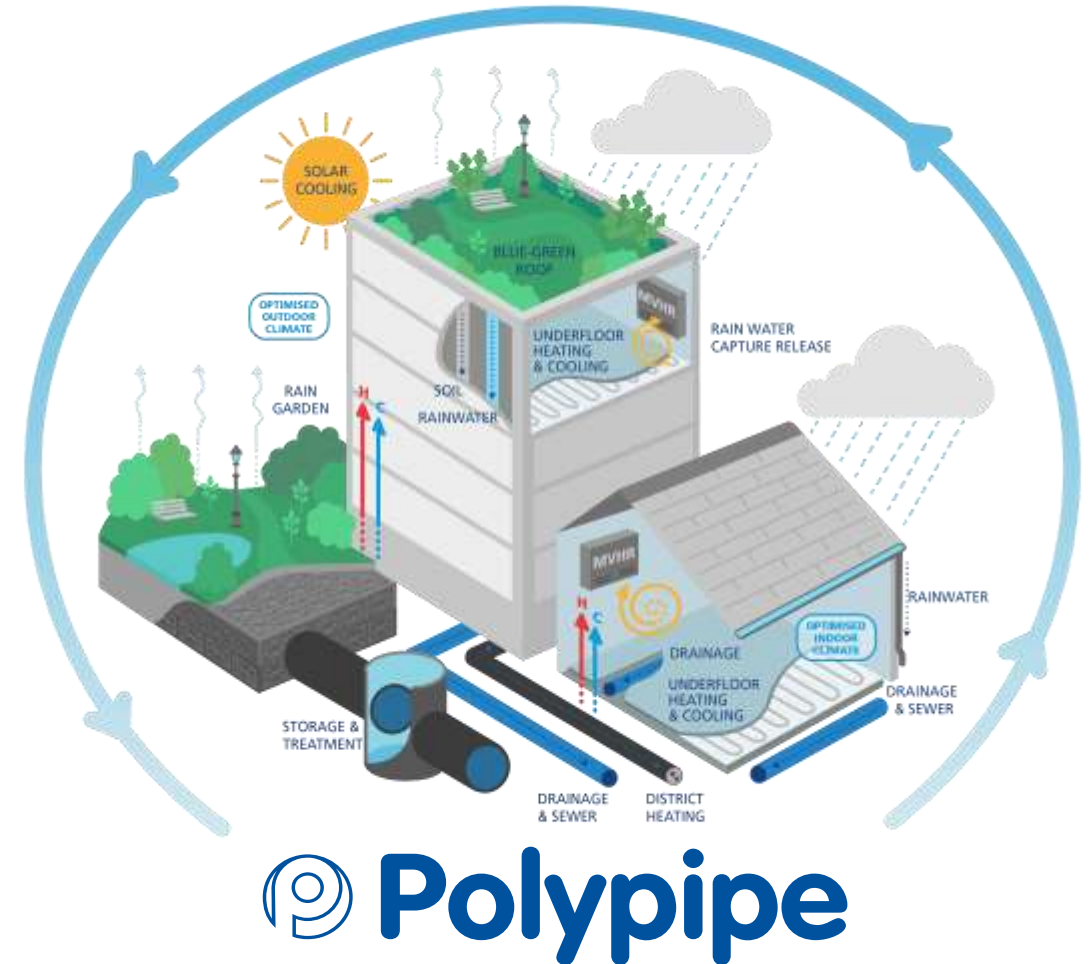
 Polypipe





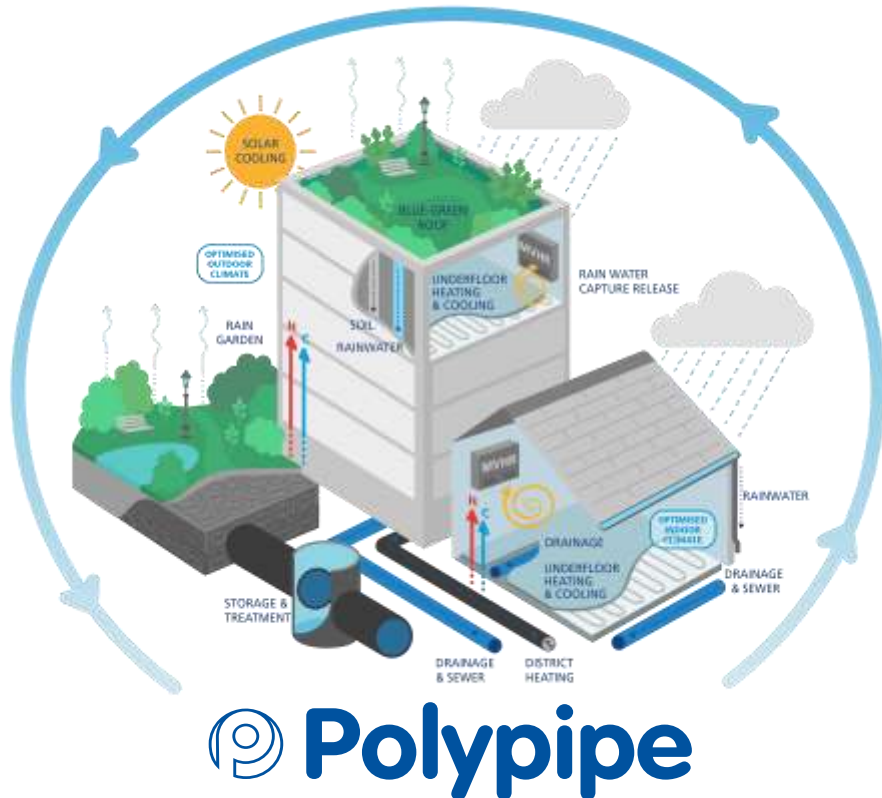
# Vision

- To be the leading provider of sustainable and resilient water and climate management solutions for the built environment
- We will do this by:
  - Building a world class sustainable business
  - Developing cost efficient solutions to substitute legacy materials
  - Leveraging our core UK competencies across key markets around the world



 **Polypipe**

# Extending our solutions offer



## ■ Sustainable Water Management Solutions

- Inside:
  - plumbing, water quality, drainage, soil & waste
- Outside (“roof to river” solutions):
  - rainwater retention, drainage, sewer, treatment, stormwater attenuation, Blue-Green solutions

## ■ Sustainable Climate Management Solutions

- Inside:
  - high-efficiency, low-energy, high air quality ventilation, underfloor heating
- Outside:
  - Blue-Green solutions to tackle Urban Island heating effect; to reduce the thermal loading on buildings
  - Low-CO<sub>2</sub> district heating

## ■ Optimised solutions

- Heating, cooling & ventilation

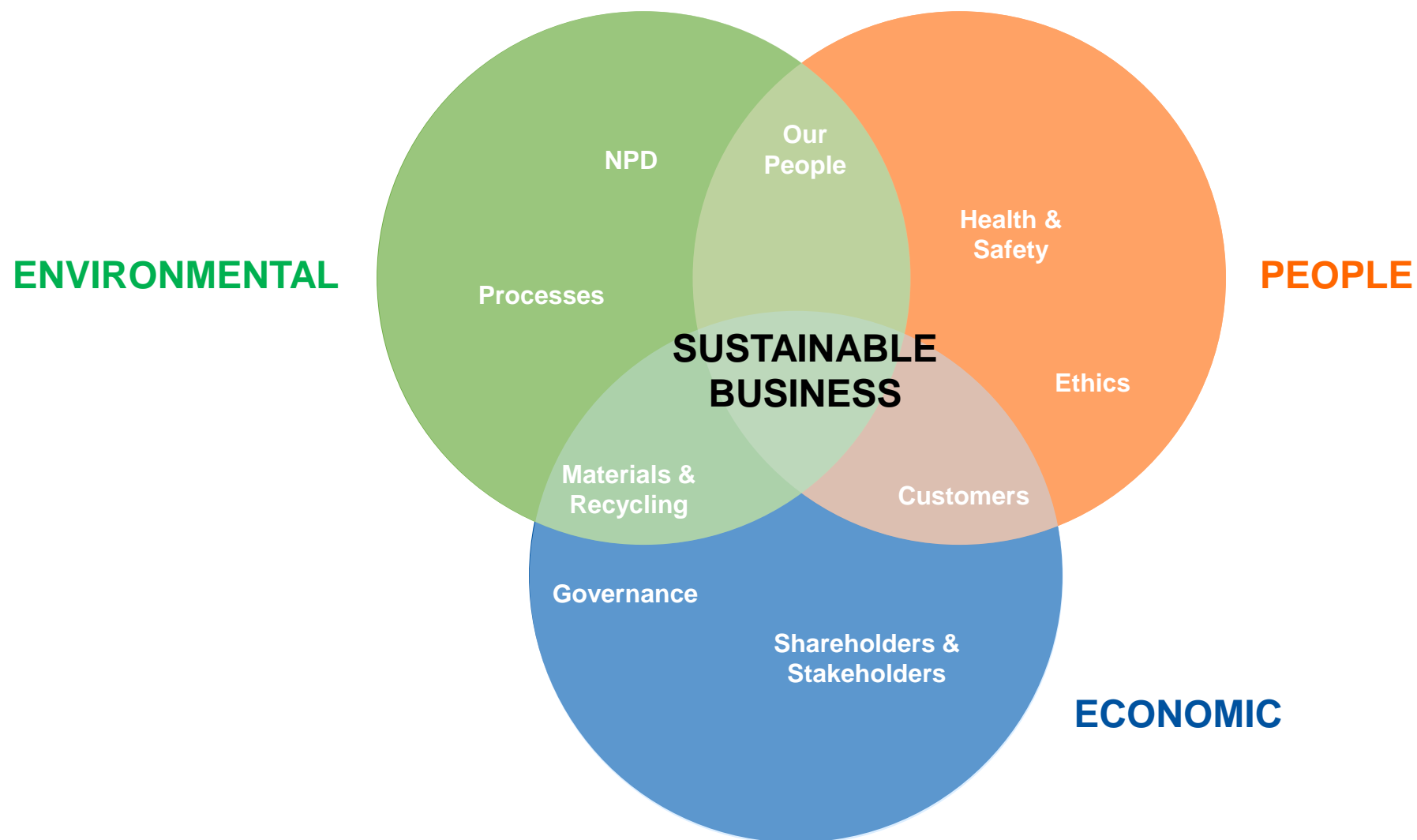
## ■ Smart solutions

- IOT\* enabled

\* Internet Of Things



# Building a world class sustainable business





Recycling Video: 2:55  
[Click to start video](#)



# Structural drivers for water and climate management solutions

- Population growth
  - Urbanisation
  - “Concretisation” of landscapes
  - Desire to live in greener environments
- Climate change
  - Extreme weather events; Flood alleviation
  - Pollution; Air quality
- Capacity constraints of existing infrastructure
- Cost; Value-Engineering



**Stat:** By 2050, the human population will have reached 9 billion; of this, 66% are expected to be living in cities with London alone set to rise from 8.6 million (2016) to around 11 million by 2036.  
UN World Population Prospects Review 2017; ONS

# The multiple impacts of “concretisation”

## Rate of water dispersion

- Water runs off almost instantaneously from impervious surfaces

## Quality of water released

- In the natural state, run-off water is naturally filtered as it flows through foliage and soil

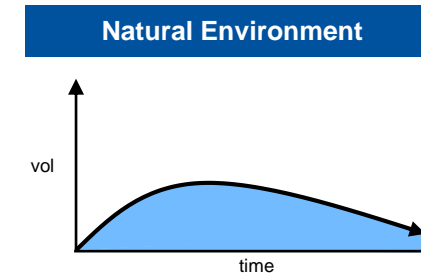
## Quantity of water released

- Impervious surfaces increase the quantity of water released to water courses

## Urban Heat Island Effect

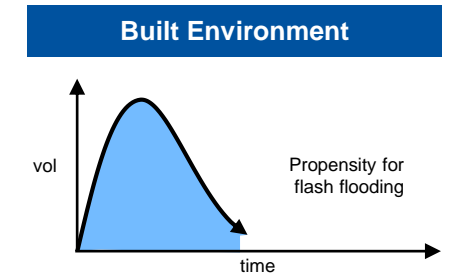
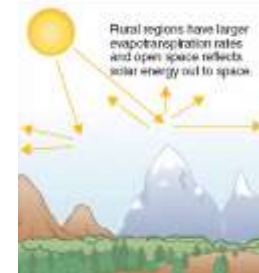
- A city centre can be +10° warmer than the surrounding countryside

Sources: <http://www.urbangreenbluegrids.com/heat/> ; <http://www.geocoops.com/urban-microclimates.html>



Run-off carries relatively low level of contaminants, incl.

- Natural organic matter



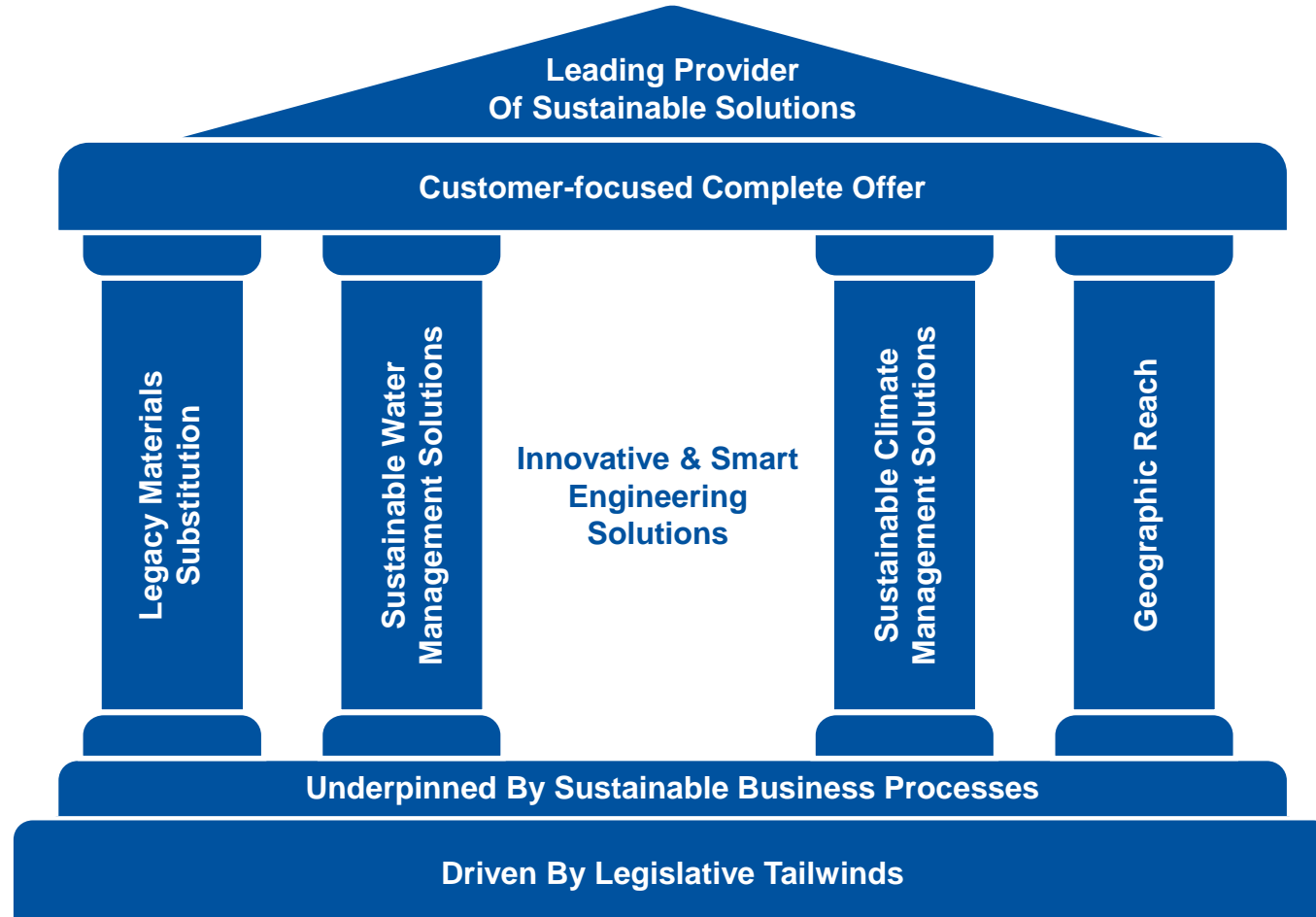
Fast-flowing run-off carries contamination & debris, incl.

- Car tyre particulates
- Hydrocarbons
- Assorted detritus





# Revised strategy



Fill gaps to provide “One Stop Shop” solutions (not just plastic)

Water and Climate solutions ahead of legislation (e.g., Roof to River)

Continuous innovation in products and processes

Sustainability throughout our activities (people, processes, products)

Leverage our expertise across wider geographies

# Strategic priorities

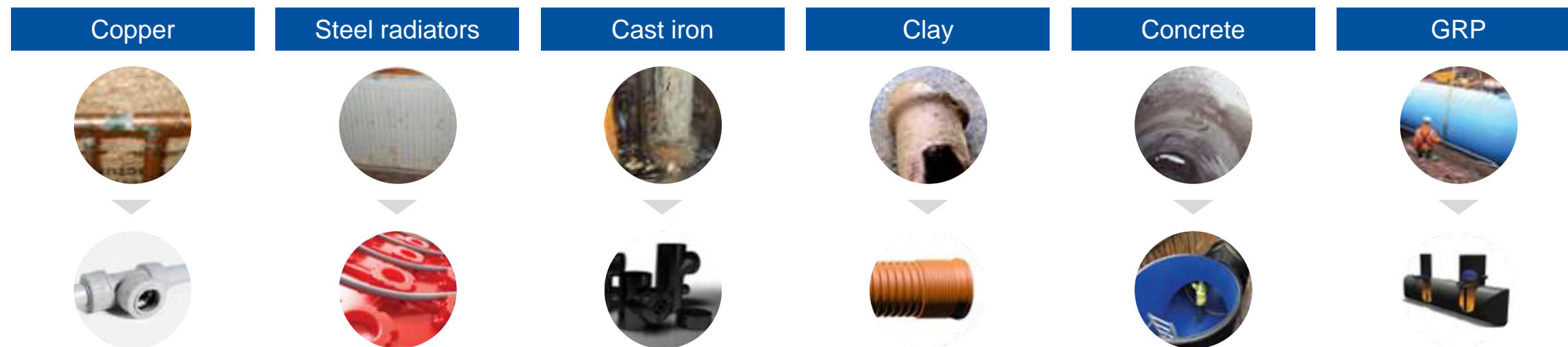
Strategic theme	Current priorities	New strategic priorities
Legacy material substitution	Strong driver: penetration against copper, clay, concrete, etc.	Continue to exploit
Legislative tailwinds <ul style="list-style-type: none"> <li>Water management solutions</li> <li>Climate management solutions</li> </ul>	Strong drivers: SuDs; carbon reduction	Continue to exploit Air quality, water quality & fire retardant coming
Innovative & smart engineering solutions	Strong drivers <ul style="list-style-type: none"> <li>Product – develop products that exploit new and growing parts of the market</li> <li>Materials / Recycling</li> <li>Automation – next-gen robotics</li> </ul>	Continue to exploit Pursue product adjacencies
Customer-focused complete solutions	Product-focused benefits to the customer	Pursue customer-focused full solution ('one-stop shop') – opens opportunities for other materials
Geographic reach	Commercialise existing (UK) portfolio in international markets	Leverage key expertise across wider markets – IP and expertise are exportable



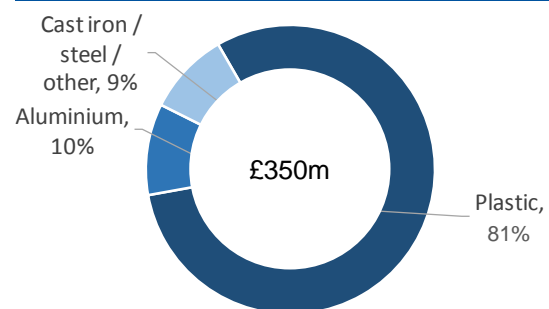
# Substitution of legacy materials by plastic piping – rationale still strong



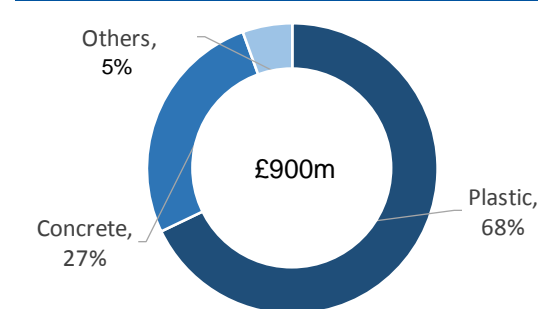
■ Substitution



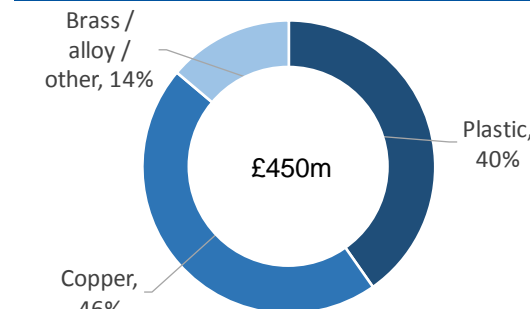
**Above ground drainage**  
(by value 2015)



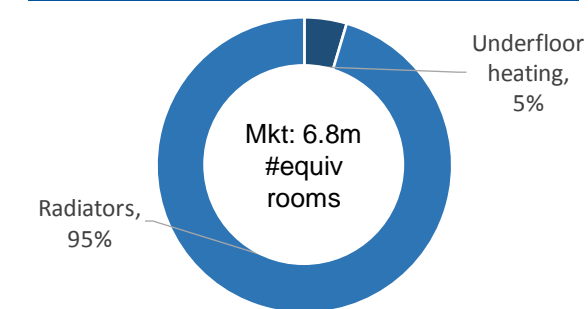
**Below ground piping systems**  
(by value 2014)



**Plumbing and heating supply**  
(by value 2015)



**Underfloor heating**  
(by vol 2016)



Source: Based on AMA Research (Pipes and Fittings UK, 2016-2020 Analysis from Feb-16) and MBD (Underground pipes - UK; Dec-15). UFH from AMA report April 2016, Underfloor heating market report UK 2016-2020

# Opportunity for further penetration of Polypipe's traditional core offer



■ Substitution

Sources of penetration of Polypipe's traditional core offer:

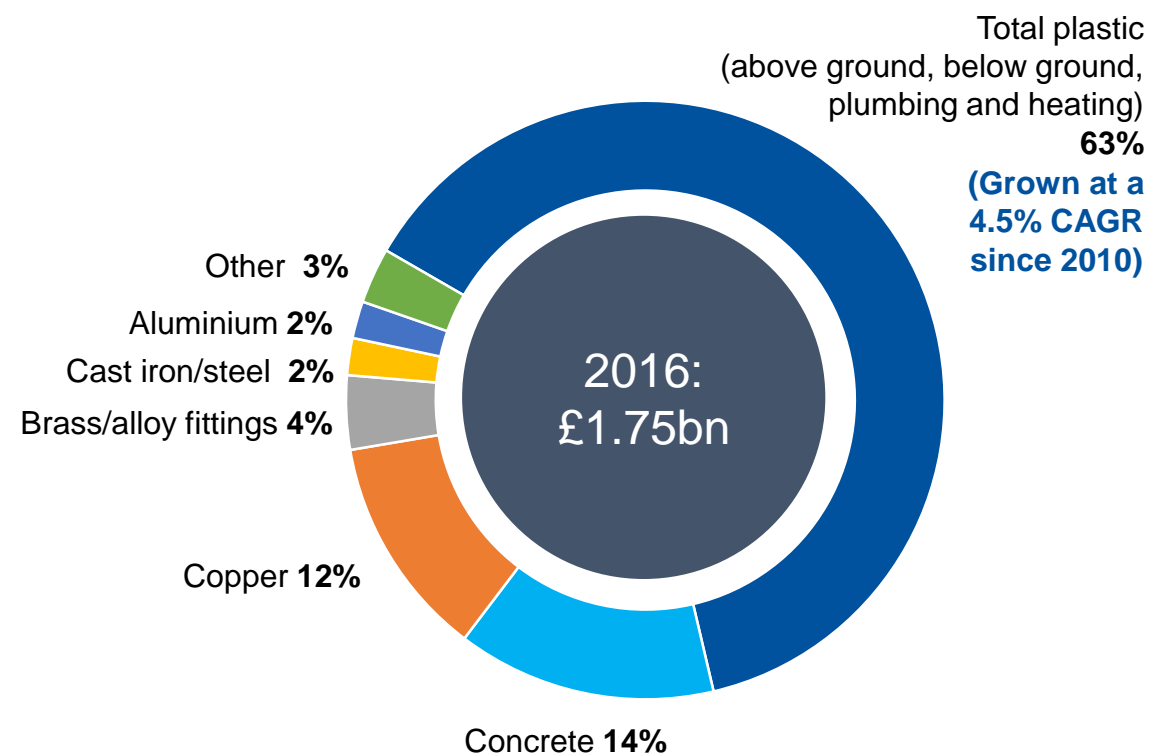
- **Further plastics substitution of legacy materials**
- Market share gain versus competition

This approach has been successful and will continue

NB: Polypipe also continues to exploit the opportunity for substitution outside of traditional pipes, including:

- Underfloor heating
- Geocellular attenuation systems
- Energy-efficient ventilation

## UK market for piping systems







# Opportunity for further gain in market share

Sources of penetration of Polypipe's traditional core offer:

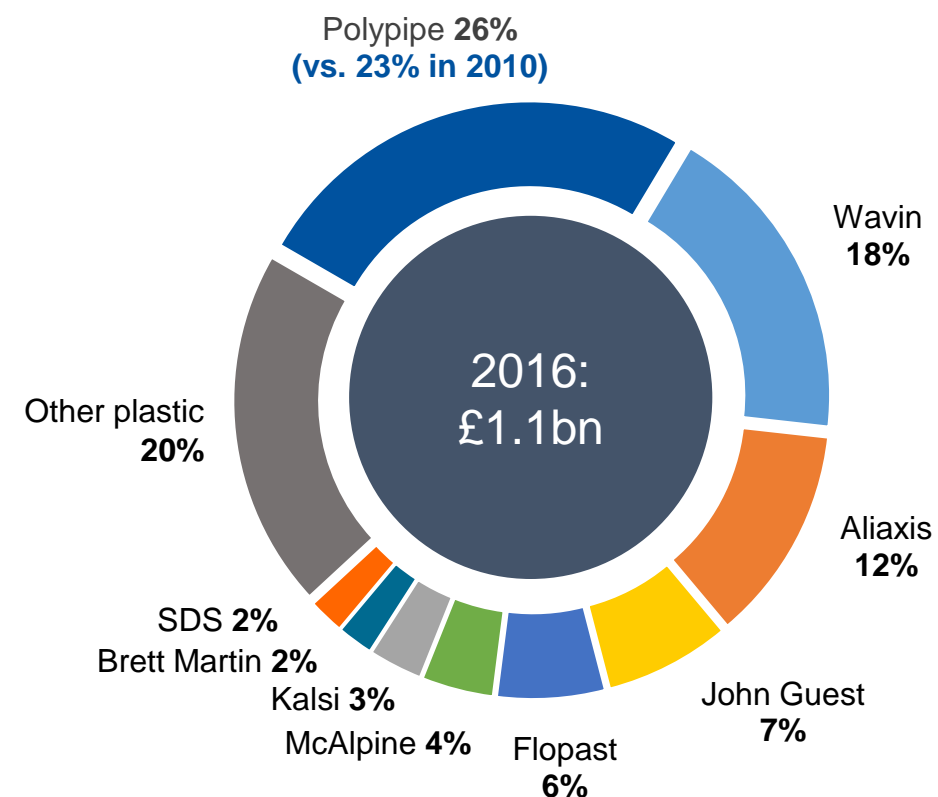
- Further plastics substitution of legacy materials
- **Market share gain versus competition**

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NB: Polypipe also continues to exploit the opportunity for substitution outside of traditional pipes, including:

- Underfloor heating
- Geocellular attenuation systems
- Energy-efficient ventilation

## UK market for plastic piping systems\*

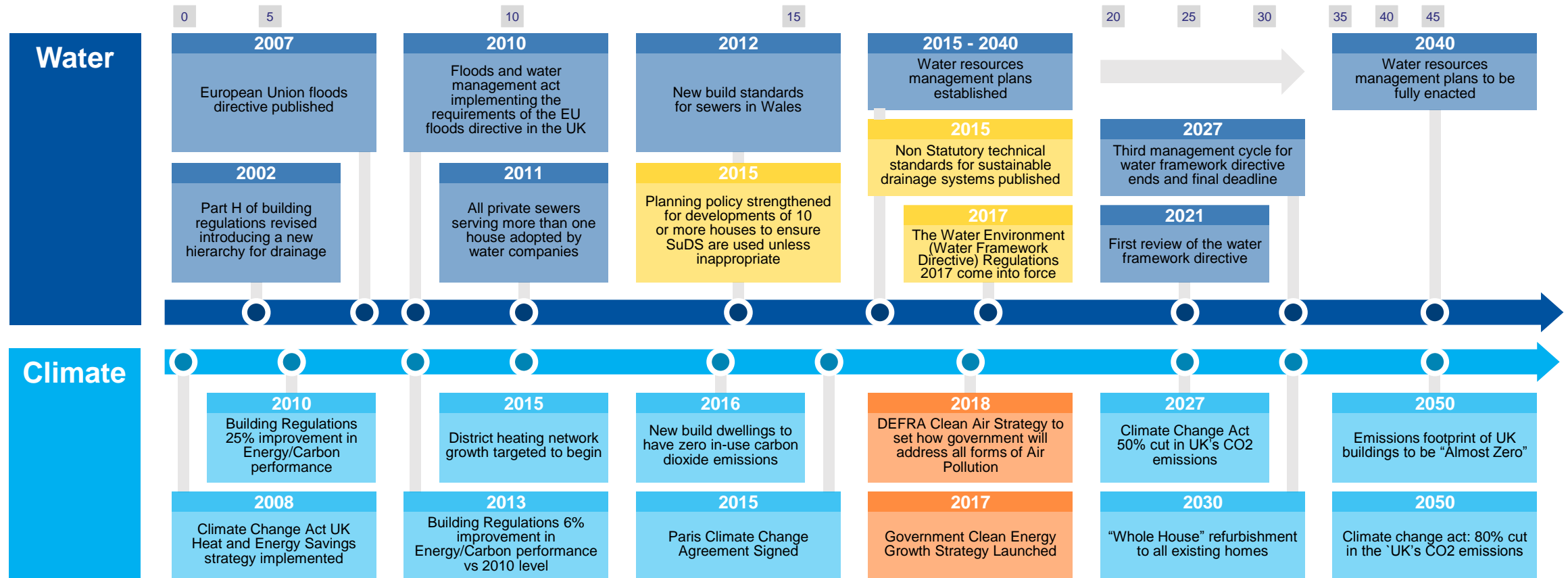


# Significant regulatory tailwinds from the UK Water & Climate roadmaps



■ Tailwinds

A number of new key environmental rules to be implemented in both the short- and long-term in the UK



Note: Climate Change Act targets are set against 1990 base year. The current date for implementation of the Mandatory Build Standard by DEFRA is currently under review and is intended for implementation at the "earliest possible opportunity" (Source: DEFRA)  
 Source: Carbon Plan 2011, Zero Carbon Hub, Building Regulations Building Regs, 2007 Flood Directive. Floods Water Management Act. DEFRA, Welsh Assembly Government. DEFRA SUDS. Water Framework Directive. Water Companies Resource Plans, The Future of Heating, HM Government





# Why water management solutions?

**Storm Frank** hit Northern UK ...

- Pic: Glenridding, Cumbria
- 30 Dec-15

... just three weeks after **Storm Desmond** ...

... and two weeks after **Storm Eva**

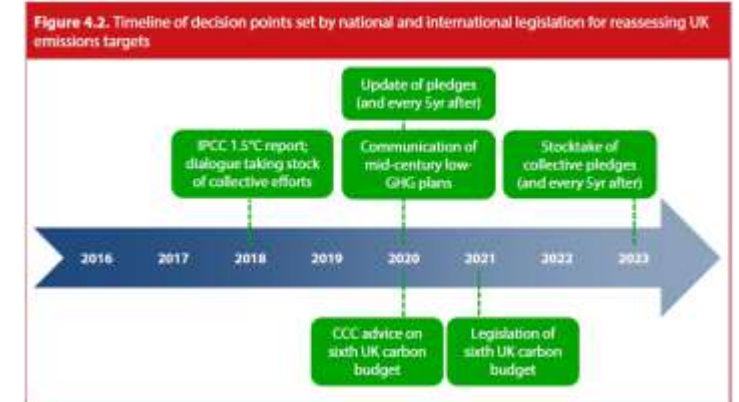
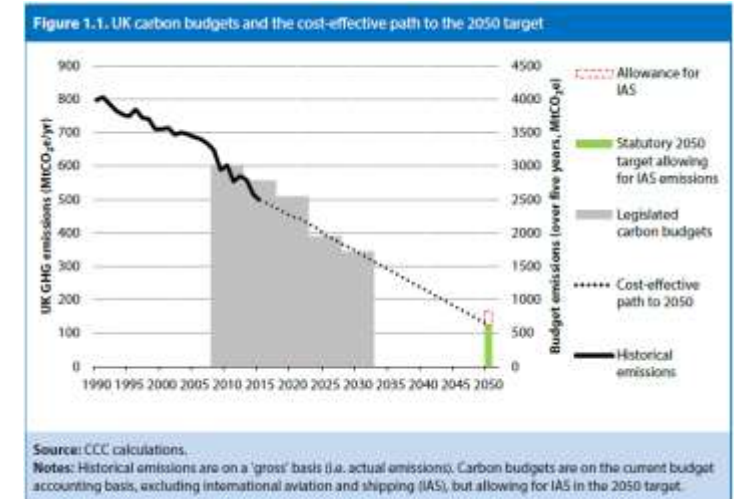




# Why climate management solutions?

In response to the Paris Agreement, the UK Committee on Climate Change reiterated its commitment to deliver on existing UK commitments to reduce greenhouse gas emissions by 80% by 2050 (vs. 1990 baseline)

- The government has also stated its intention to go beyond the current UK targets
- Meeting these targets will require economy-wide improvements to efficiency, where our solutions have a role to play
  - Energy efficiency in heating / cooling / ventilation
  - District heating and distributing heat from waste
  - Tackling the urban island heating effect and urban air quality



Source: Committee on Climate Change: document "UK climate action following the Paris Agreement", Oct-16

# Continued growth in products developed to exploit these drivers



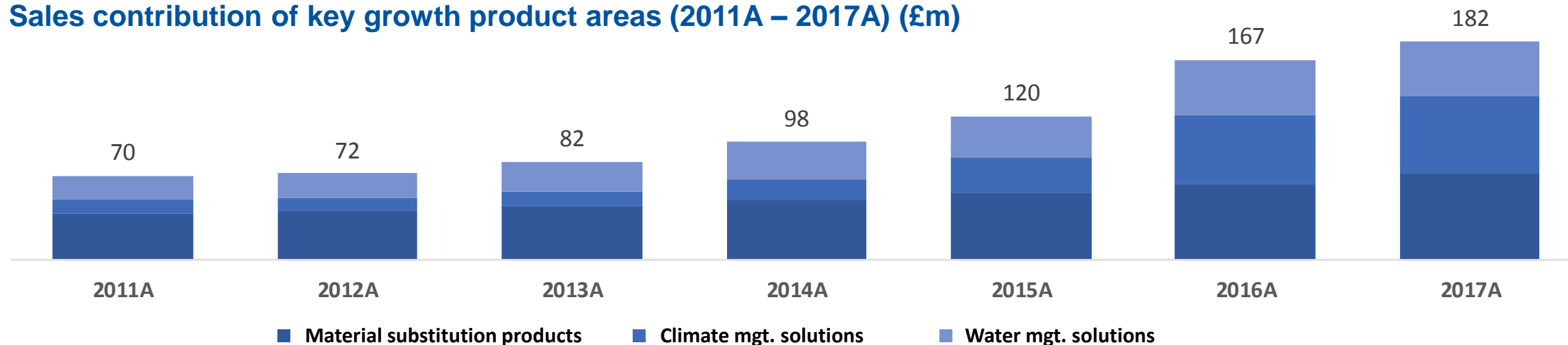
- Substitution
- Water
- Climate

Growth of 'development products' to 44% share of Group net turnover in 2017

■ These 'development products' cover:

- Material substitution
- Water management solutions
- Climate management solutions

## Sales contribution of key growth product areas (2011A – 2017A) (£m)



Source: Management analysis based on statutory accounts; excl. Polypipe France from history



# Ongoing innovation



■ Innovative & smart Engineering solutions

Launched products to exploit legislative tailwinds and regulation

- Polystorm
- Ridgistorm XL
- Large dia. continuous corrugator
- Pushfit plumbing
- Underfloor heating (UFH)
- Air Filtration
- BioCote antimicrobial



Other innovation:

- Increasing use of recycled material
- Triple layer (recycled core)
- Automation

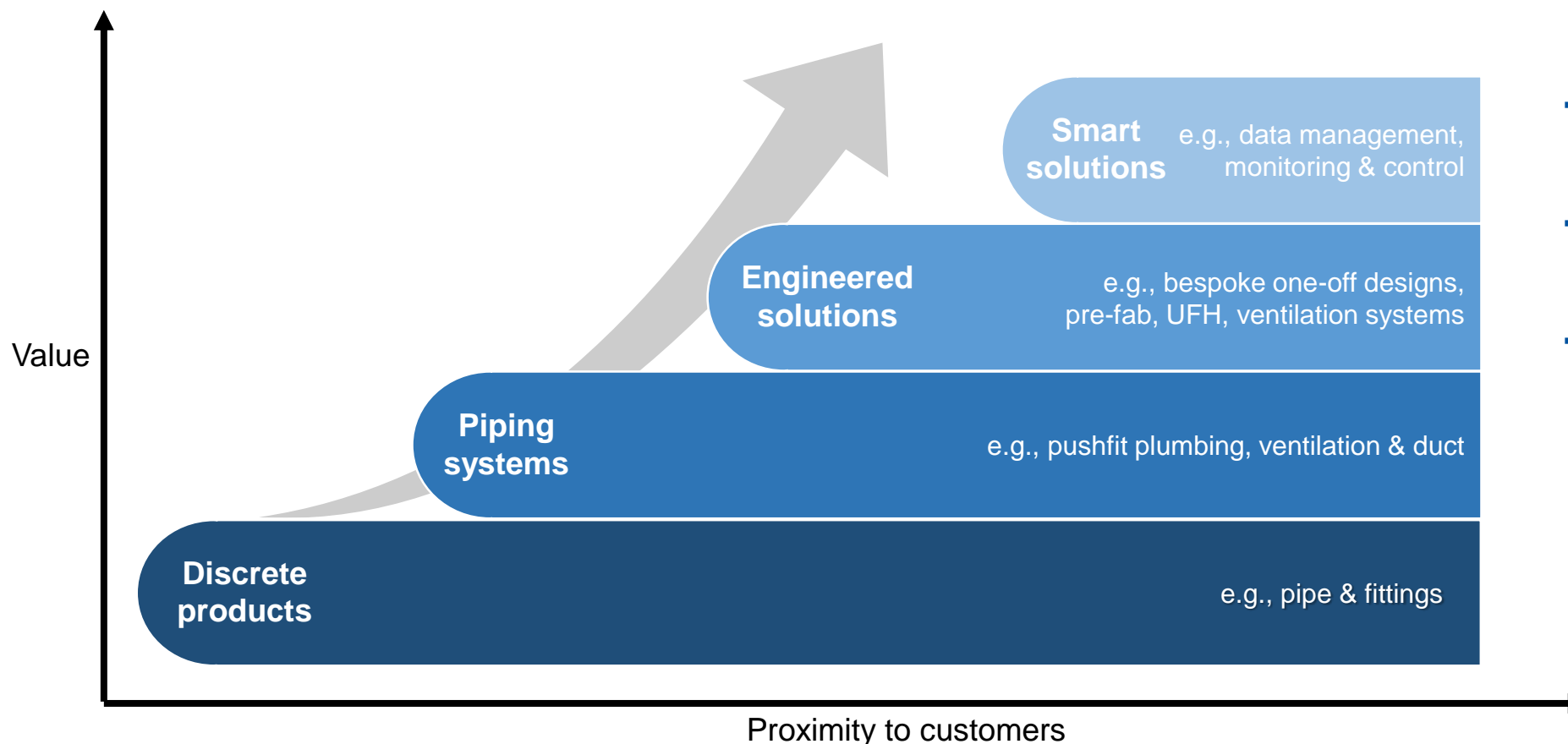


# Our evolution to date: from discrete products to complete engineered & smart solutions



▪ Innovative & smart Engineering solutions

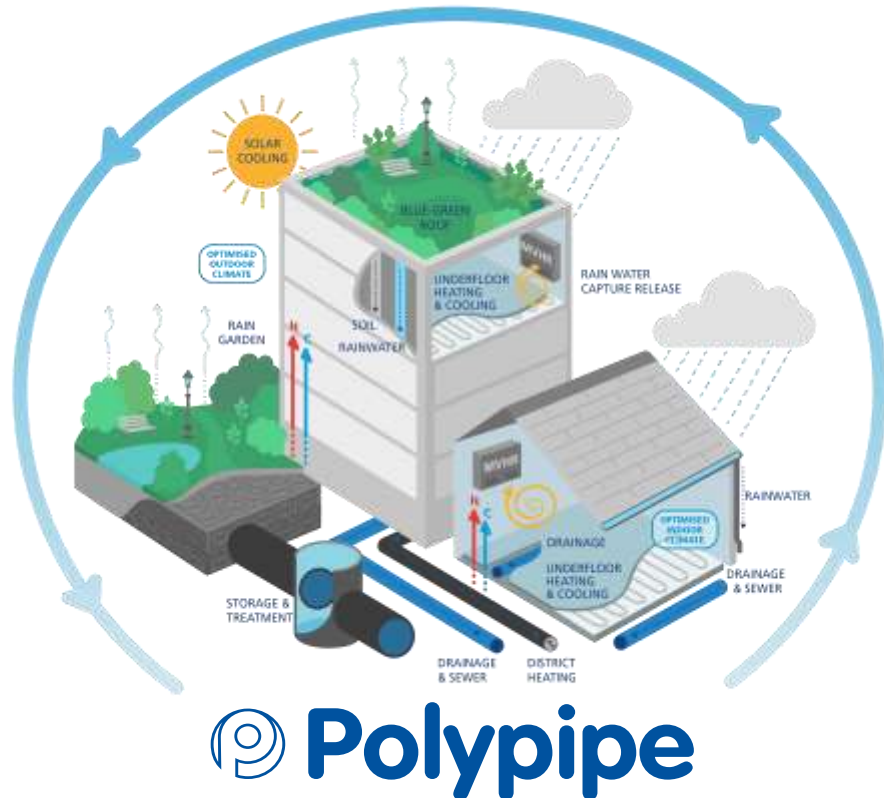
Production of pipe & fittings serves as a foundation for the development of the Group's solutions



- Our evolution timeline, from 80s to today, ...
- Competition typically only does parts of this
- Polypipe's competitive advantage: generating industry leading margins through value added solutions, long-standing customer relationships, manufacturing scale and logistics efficiency



# New strategic priorities – focus for M&A



- Plastic is our primary objective
  - Continue with legacy material substitution
  - Limited UK consolidation opportunity
- Need to provide the “full” offer to our customers, as a “one stop shop”
  - Some elements where plastic may not be the best solution
    - Blue / Green Roof
    - Channel drainage
    - Large warehouse rainwater capture
    - High pressure / High temperature water distribution (District Heating)
    - Flow control, to meet SuDs legislation
    - Runoff treatment (removal of hydrocarbons)
    - Integrated climate control
    - Indoor air quality to clean air standards (NO<sub>x</sub>, particulate removal)
    - High quality architectural buildings
  - Expands the pool of potential acquisitions; provides focus for near-term M&A



# Strong track record for M&A and integration

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Both Big... :

- 2007 (£40m): Acquisition of Terrain commercial drainage business
- 2015 (£145m): Acquisition of Nuaire ventilation business

... and small:

- 2010 (<£1m): Acquisition of Silavent ventilation business
- 2014 (<£1m): Acquisition of Ferrob ventilation business
- 2015 (£5m): Acquisition of Surestop stopcock substitution business

Polypipe's approach to integration:

- Retention of the existing focused sales teams
- No imposition of corporate regulations
- Focus on combined customer relationship management (CRM):
  - Project management
  - Revenue synergies



## Geographic reach – acceleration of targeted development

### Not just the UK

- We will continue to develop our exports – our solutions respond to challenges that are global in nature; look to leverage our skills, technical knowledge and IP across a wider market
- Imperial versus metric standards – a barrier to entry for the home market; and also an opportunity for international BS-friendly markets
- Has to be in the right sectors of the market where we can make above average returns – pursue profitable global niches
- M&A can be an accelerator – right product; established position; high margin

### In summary

- Our products can be expensive to export (often transporting fresh air); our IP, expertise, and knowledge however, is exportable

# Summary

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## Current strategy works – it's a case of evolution, not revolution

- Elements of current strategy working well and will continue to do so – there is plenty more to go for
  - Legacy material substitution
  - Legislative tailwinds
- Some elements need a different approach
  - Development of export markets
  - M&A – complete customer offer

## Going Forward

- Continue investing in organic growth in the UK
- Augment with acquisitions in broadened gaps / adjacencies and accelerate activity
- More work on ways of leveraging core competencies across wider markets



# Agenda

1 WELCOME

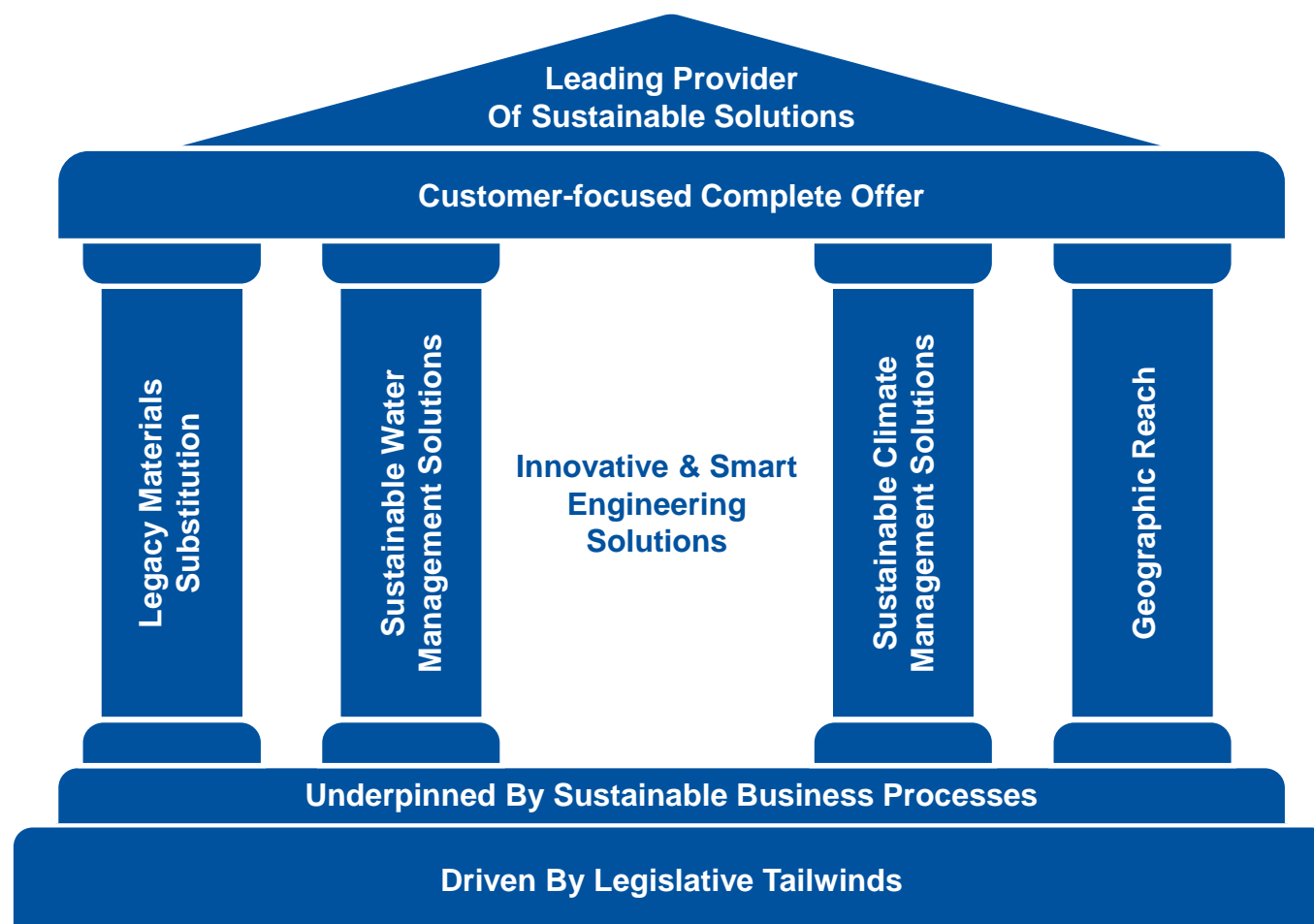
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# Revised strategy



Fill gaps to provide “One Stop Shop” solutions (not just plastic)

Water and Climate solutions ahead of legislation (e.g., Roof to River)

Continuous innovation in products and processes

Sustainability throughout our activities (people, processes, products)

Leverage our expertise across wider geographies

## Polypipe's well invested manufacturing base





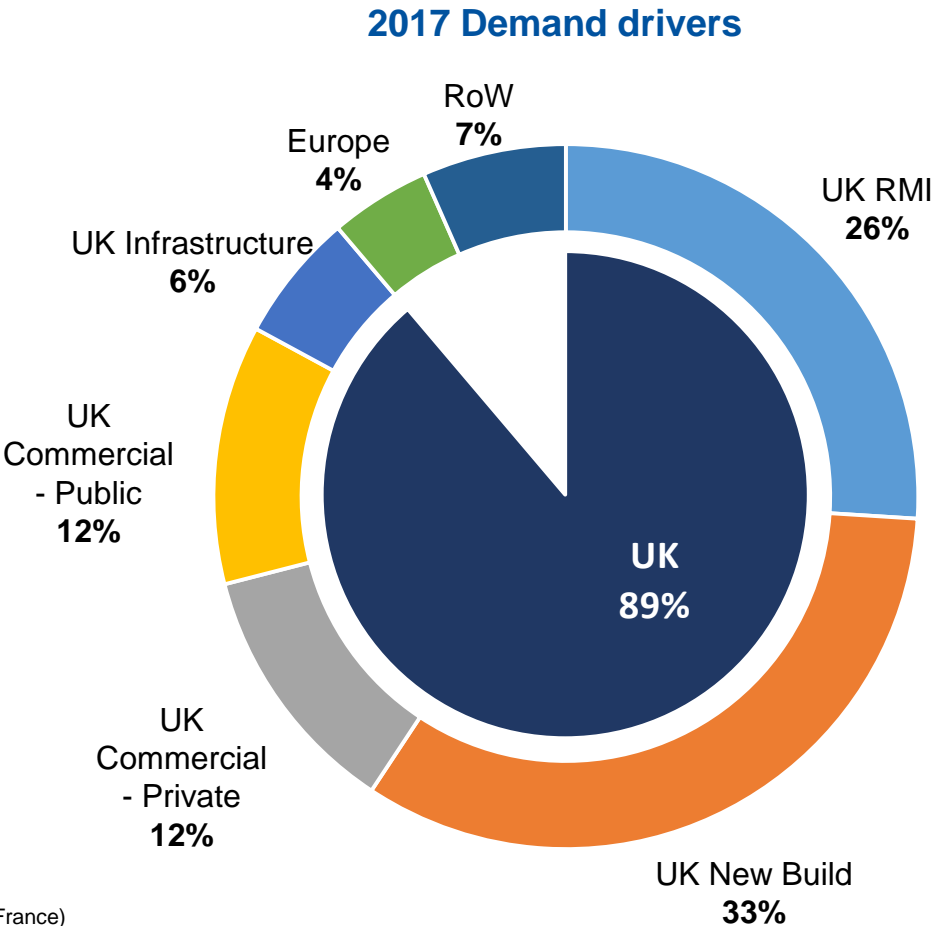
Well invested  
manufacturing base:  
one of our injection  
moulding halls in  
Doncaster



- Leadership
- Innovation
- Sustainability

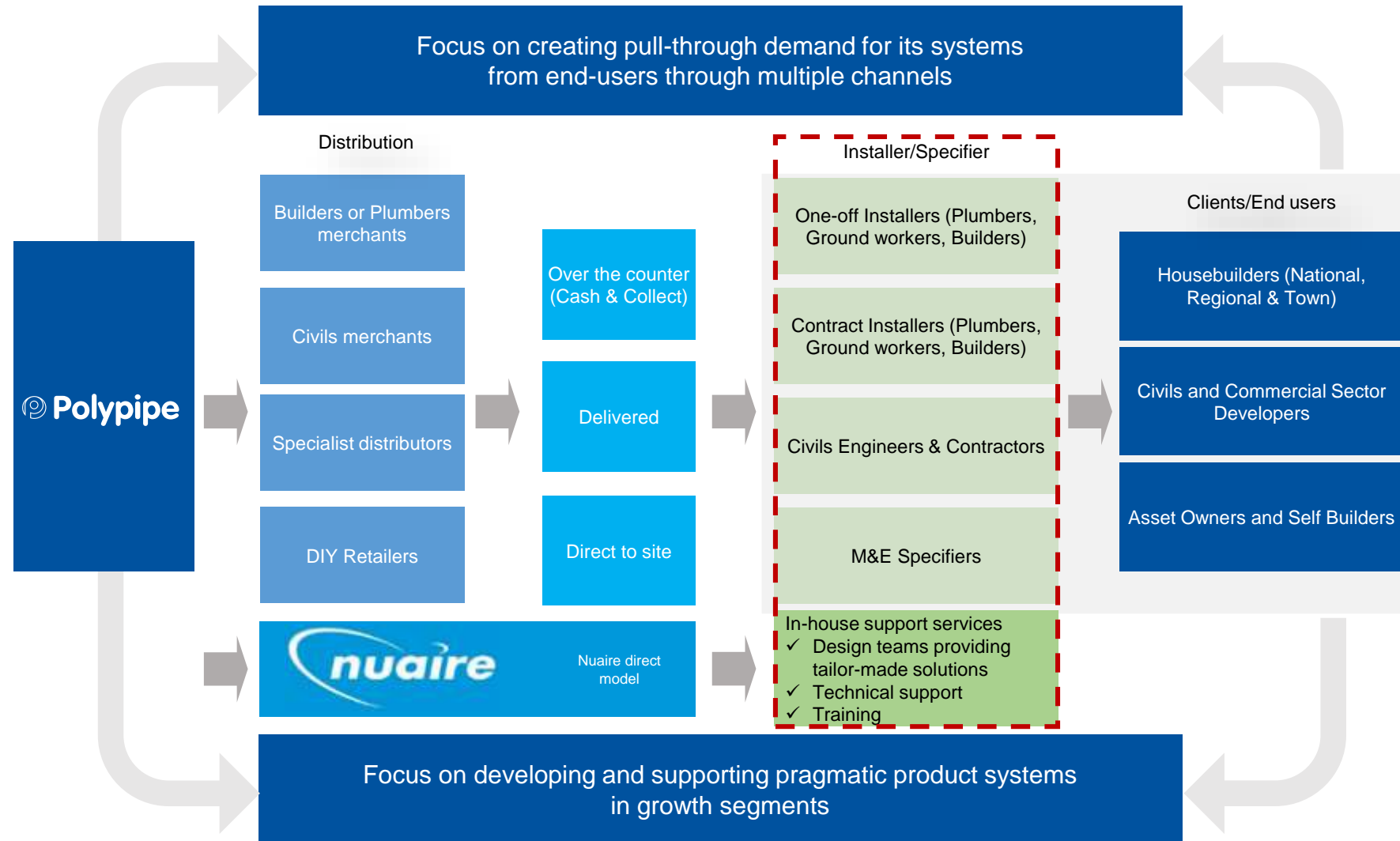


# Balanced portfolio across UK construction market

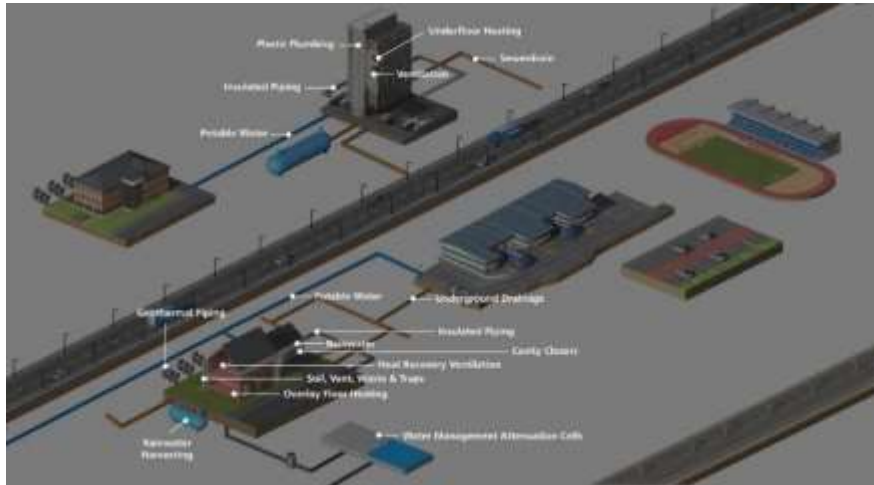


Revenue from continuing operations (ie. excluding Polypipe France)

# Long-standing relationship with specifiers and support services to contractors



# Broadest product range meeting UK market standards



- Excellent UK distribution base
- Extensive external selling operation
- Strong specification with in the Private and Social Housing sector
- The popular choice for the local Builders, Plumbers, Heating Trades and DIY
- Superb offering in the fast growing Plastic Plumbing and UFH market
- Front runner in the sustainable indoor environment and water management
- Continued investment in technology in manufacturing and distribution



**Soil, Vent,  
Waste & Traps**



**Rainwater**



**Underground  
Drainage**



**Sewer drain/  
Adaptable Sewer**



**Rainwater  
Harvesting**



**Water Management –  
Attenuation Cells**



**Water Supply**



**Geothermal  
Piping**



**Push & Press  
Fit Plumbing**



**Underfloor  
Heating**



**Overlay Floor  
Heating**



**Insulated  
Piping**



**Ventilation  
Systems**



**Heat Recovery  
Ventilation**



**Pre-Pack  
Solutions**

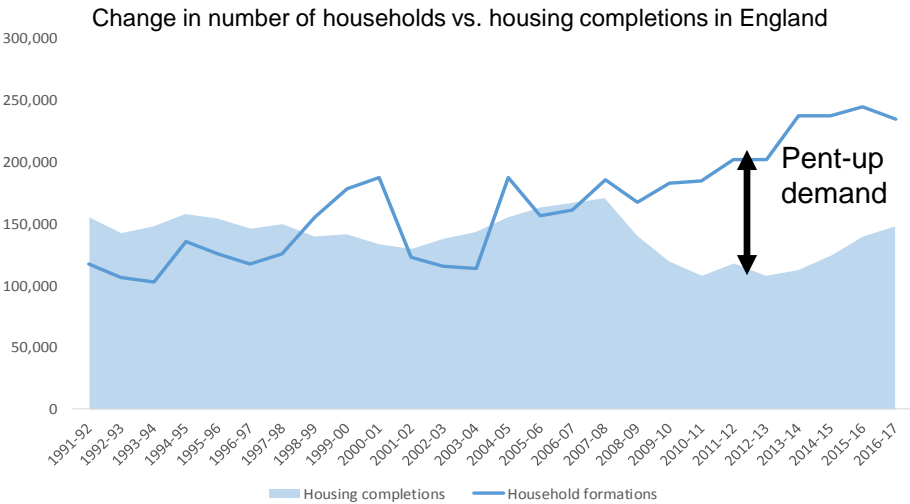


**Cavity Closers**

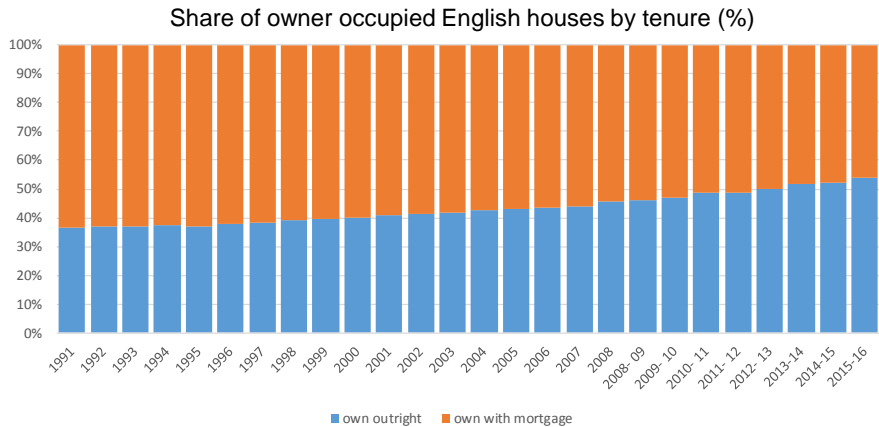


# Residential

## Operating segment review – Residential Systems



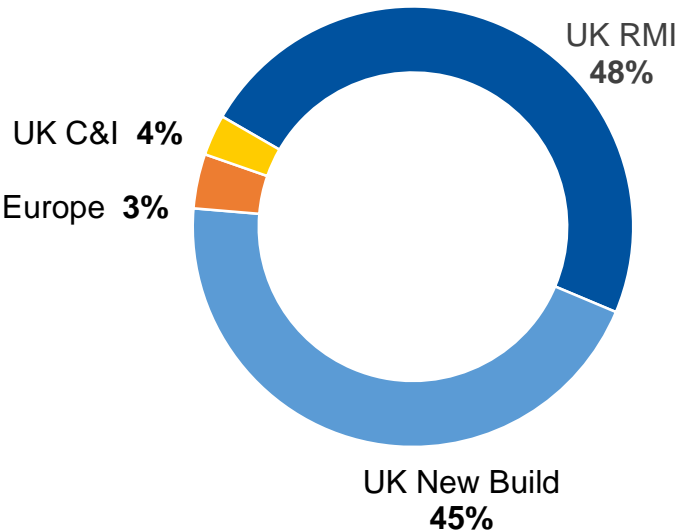
Source: Department for Communities and Local Government, 2014-based household projections, Permanent dwellings completed, updated Aug. 2017



Source: ONS Tenure trends, update Jul 2017

Residential Systems	2017	2016	% Growth
Revenue	£223.5m	£202.7m	10.3%
Underlying operating profit	£44.3m	£39.1m	13.3%
Underlying operating margin	19.8%	19.3%	

### Sector drivers of 2017 revenue



## Product innovation: “Super Soil”



- Leadership
- Innovation
- Sustainability

Core product area under price pressure requiring differentiation to retain value

1. Move from existing solid wall pipes to 3 layer pipes with recycled material in core – 2018 material saving £350k
2. Create new industry standard of differentiated fitting by:
  - Moving production technology to collapsing core mould tooling to create one piece mouldings
  - Utilising blue coloured ring lock seals for enhanced performance and brand identification
  - Total investment - £494k for new mould tools + seal tool cost of £85k
  - Additional £528k sales budgeted in 2018

Re-launch in early 2018 backed by nationwide Blue Matters marketing campaign



## Product innovation: Traps development



- Leadership
- Innovation
- Sustainability

1. Re-launch of waste traps including patented Fit-Rite technology and quality improvements
2. BioCote anti-microbial technology added to all traps – first to market with this technology
3. Re-design and re-engineering of category A trap products to improve aesthetics and performance





Differentiation also required in waste pipes and fittings segment

1. Move to 3-layer pipe technology and introduce BioCote anti-bacterial additive to existing - material saving of £575k in 2018
2. Re-development of ABS solvent weld waste to Easi-Fit version with cleaner, quicker, controlled jointing process that will also allow dry fitting of system
3. Replace push-fit waste with slim line 1-piece moulded product with anti pull out function
4. 2<sup>nd</sup> generation compression waste with Fit-Rite and BioCote technology – launching Q2 2018





A prestigious log-cabin development in Scotland with Polypipe's underfloor heating solution installed throughout; chosen for its low-energy heating and sustainability credentials



- Climate
- Sustainability
- Complete offer





- Leadership
- Innovation
- Sustainability

## 1 Current Assembly Method



## 2 Future Assembly Method



## 3 AMRC membership



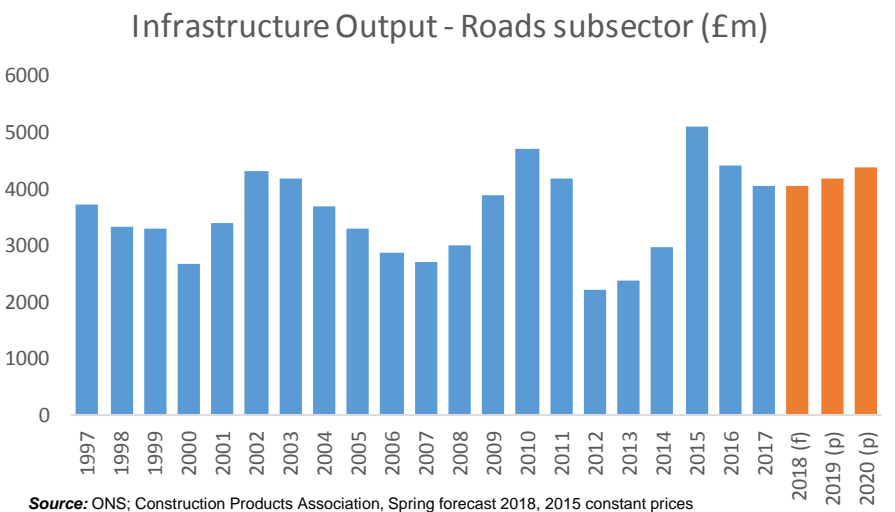
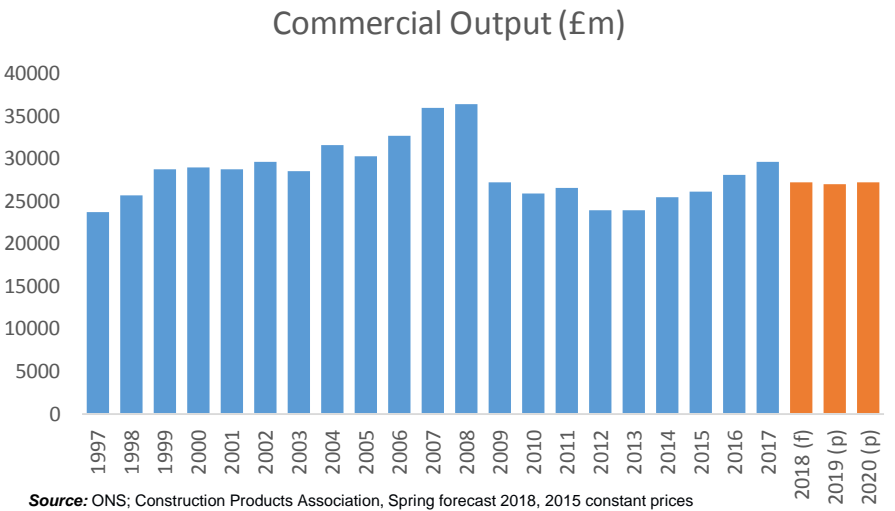
The sensory dexterity of the ABB Yumi robot enables it to make paper aeroplanes, as well as work alongside people



Automation video: 2:11  
[Click to start video](#)

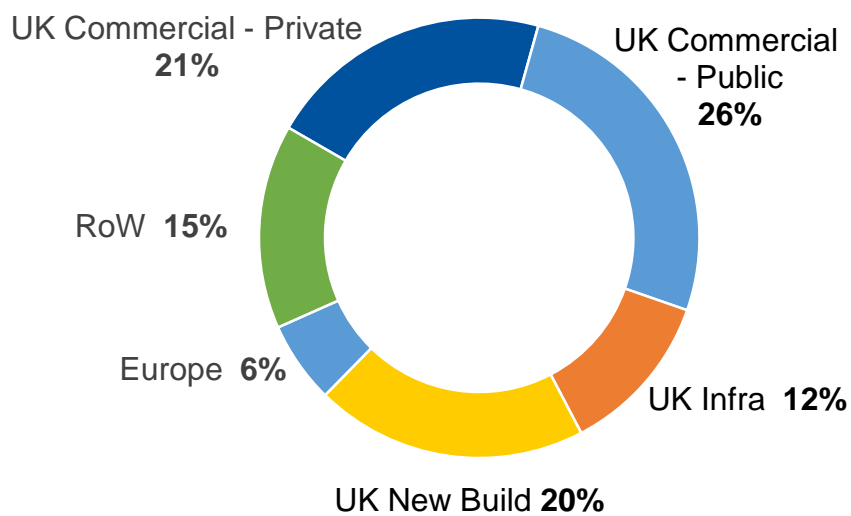
Commercial & Infrastructure

# Operating segment review – Commercial & Infrastructure Systems



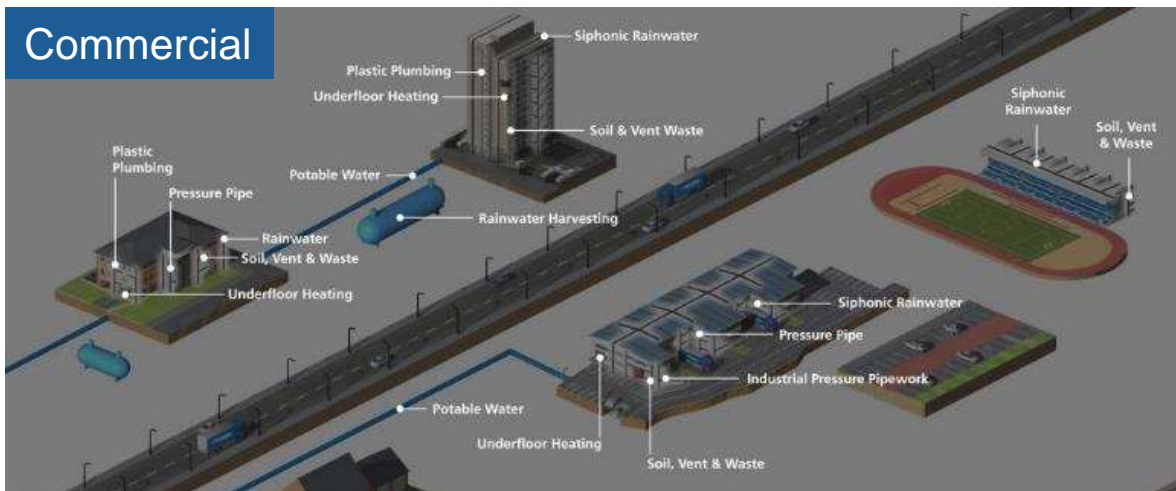
Commercial and Infrastructure Systems	2017	2016	% Growth
Revenue	£188.2m	£184.5m	2.0%
Underlying operating profit	£28.3m	£29.4m	(3.7)%
Underlying operating margin	15.0%	15.9%	

Sector drivers of 2017 revenue





# Broadest product range meeting UK market standards



- Market leader for above ground drainage in building services
- M&E product portfolio includes water supply systems, rainwater harvesting and underfloor heating
- Nuaire ventilation portfolio provides an enhanced presence in the sector
- Strong specification presence - high profile projects
- Above ground drainage on major high profile projects including Olympic Park projects
- Outstanding technical support function
- State of the art training facilities in Kent and Caerphilly



Soil, Vent,  
Waste & Traps



HDPE Drainage



Acoustic  
Drainage



Rainwater



Underground  
Drainage



Passive Fire  
Protection



Pressure Pipe  
Supply



Industrial Pressure  
Pipework



Rainwater  
Harvesting



Siphonic  
Drainage



Press Fit  
Plumbing



Underfloor  
Heating



Water Supply



Heat Recovery  
Ventilation



Air Handling  
Units



Twin Fan Units

## So why all the drama about air quality?



- Climate
- Leadership
- Tailwinds

**Indoor Air Pollution** and Health. **Indoor Air Quality** (IAQ) refers to the **air quality** within and around buildings and structures, especially as it relates to the health and comfort of building occupants. Understanding and controlling common pollutants **indoors** can help reduce your risk of **indoor** health concerns

The UK is divided into 43 zones for Air Quality Assessment

**In 2016, 37 of the 43 UK zones contained locations which failed to meet WHO targets**

Air pollution in the UK claims around **40,000** lives each year



Air Pollution Video: 3:52  
Click to start video

## So why all the drama about air quality?



- Climate
- Leadership
- Tailwinds



**FINALIST**

**Highly commended**  
Air Movement Product of the Year

Source: H&V news Awards 2018, Grosvenor House Hotel, 19 April 2018



# Project Cresco – Material substitution focus versus cast iron



- Substitution
- Innovation
- Leadership

## Strategic Intent:

- Capitalise on the growing opportunity for polyethylene (PE) in the gravity drainage sector
- To remove a third party supplier from the chain

## Investment and scale up on plan

- Injection moulding and extrusion machinery in place
- Tooling continually arriving through to end Q1
- Electrofusion cell to be operational Q1 2018

2017 Actual Sales £7.8M v £4.3M in original 2015 justification



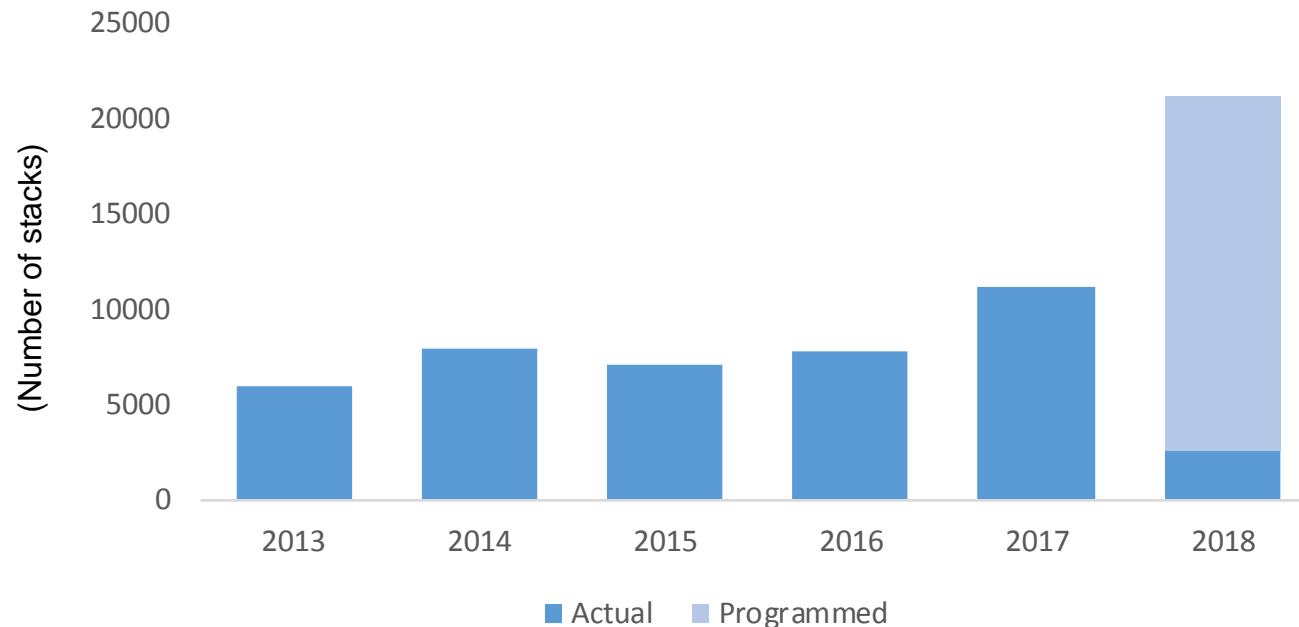


- Complete offer
- Innovation
- Substitution

## The “Digital Drainage Stack” Concept – offsite construction

- Terrain now are well established in the supply of fabricated stacks

Growing demand for fabricated drainage stacks



BIM model – fabricated  
noise reducing drainage  
stack

# The “Digital Drainage Stack” Concept



- Complete offer
- Innovation
- Substitution

## Headline Project Vision

- Transition from Traditional Supply to a Site Optimised Service
  - Manufactured Drainage Stacks or Pre-Configured Stack packs
  - Facilitated by automated manufacturing concept
  - Target an economic batch size of 1

## Key Project Objectives

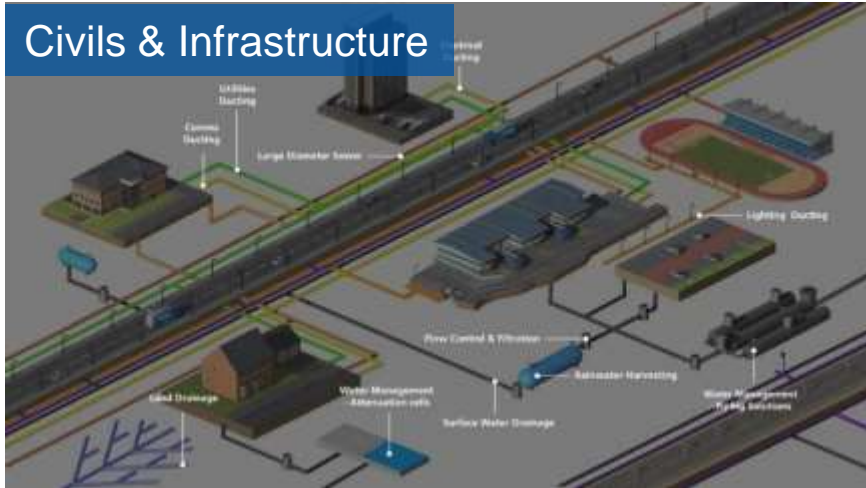
- Site usage optimised but with process quality
- Economically viable for all sizes of project

## Critical Path

- Digital demand creation
- Online configurator tool required – cross platform compatible output (Configurator; ERP; Production; unlocked by BIM)
- Realise automated manufacturing concept

# Broadest product range meeting UK market standards

## Civils & Infrastructure



- Market leader in UK core civis products
- Strategic focus on Water Management
- Focused resource including:
  - Technical design support
  - Technical sales / specification team
  - Specialist fabrications
- Unique large diameter pipe system
- Fully integrated product range



Surface Water Drainage



Land Drainage



Large Diameter Sewer



Ducting Systems



Water Management – Piping Systems



Water Management – Attenuation Cells



Water Management – Pavement System



Water Management – Podium Decks



Rainwater Harvesting



Flow Control & Filtration



Manholes & Catch Pits



Displacement Ventilation



Bio-Gas Energy Storage



Our recent investment in a new continuous corrugator at Horncastle that will enable these large dia. pipes to compete against concrete pipes



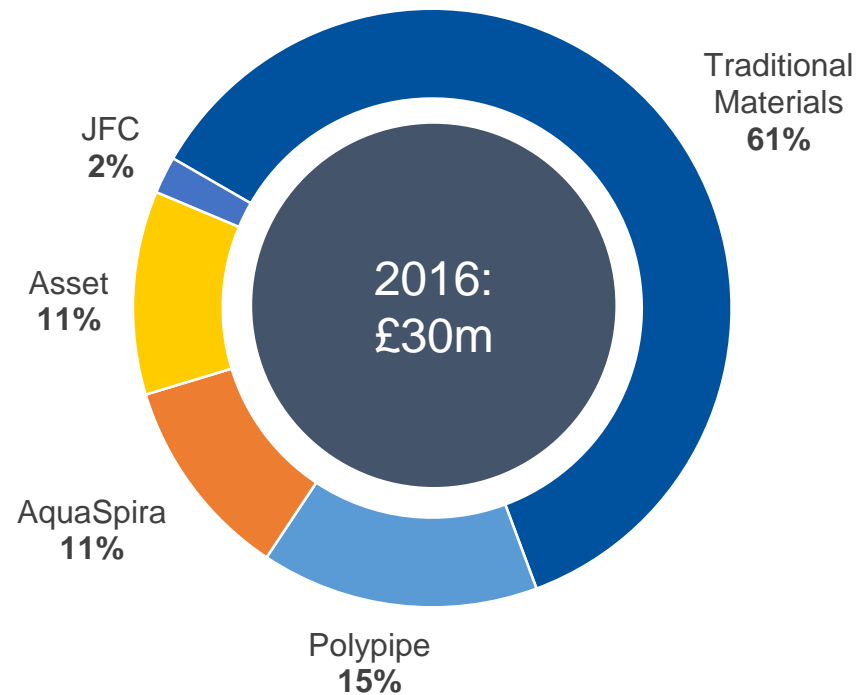
- Water
- Substitution
- Leadership

## UK – 750mm & 900mm Addressable Market

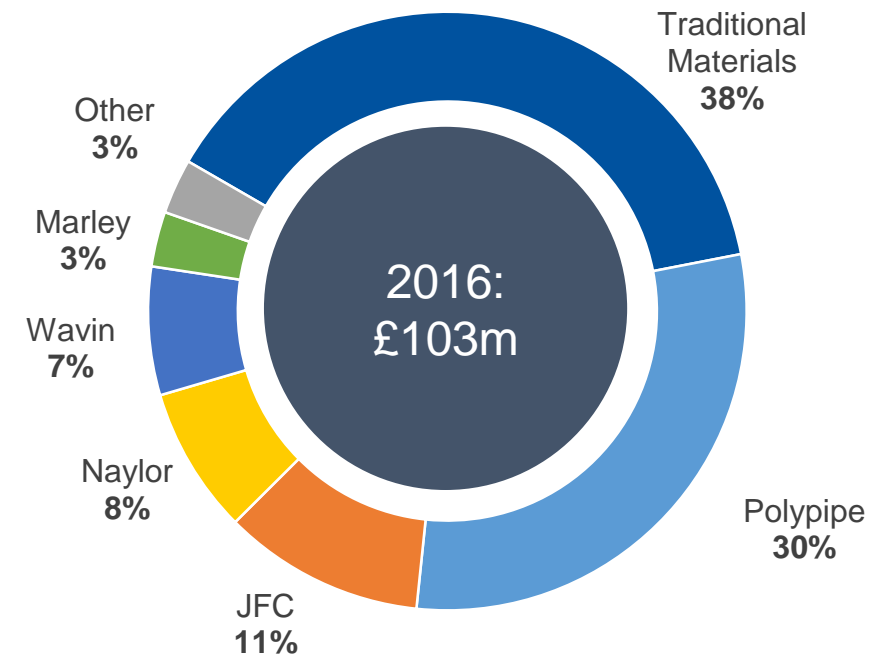


- Water
- Substitution
- Leadership

UK 750mm & 900mm pipe  
addressable market 2016



UK 100-600mm sewer & drain  
addressable market 2016



Source: Management estimates, based on company accounts



Large pipes engineered  
and installed for  
stormwater attenuation  
at a residential  
development scheme at  
Houghton Regis, UK



- Water
- Engineering
- Tailwinds





A recent residential attenuation development in Kidderminster, where offsite prefabrication, and delivering to site just-in-time became crucial to limit the disruption to residents and ensure safety on site



- Water
- Engineering
- Complete offer







- Water
- Substitution
- Engineering



Hydrodynamic  
separator  
installed inside  
one of our large  
dia. chambers



# Agenda

1 WELCOME

2 STRATEGY

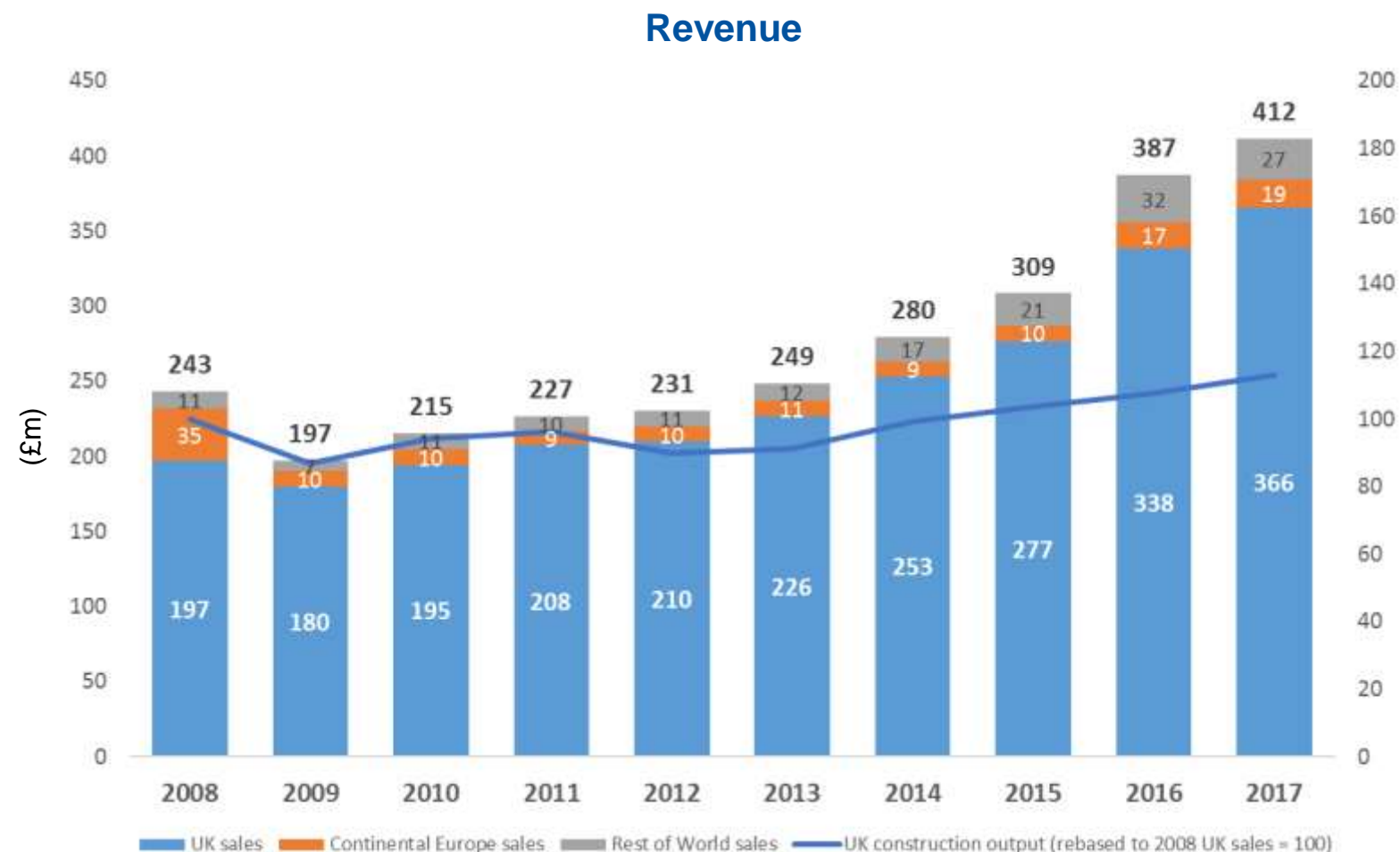
3 BUSINESS REVIEW

4 FINANCIALS

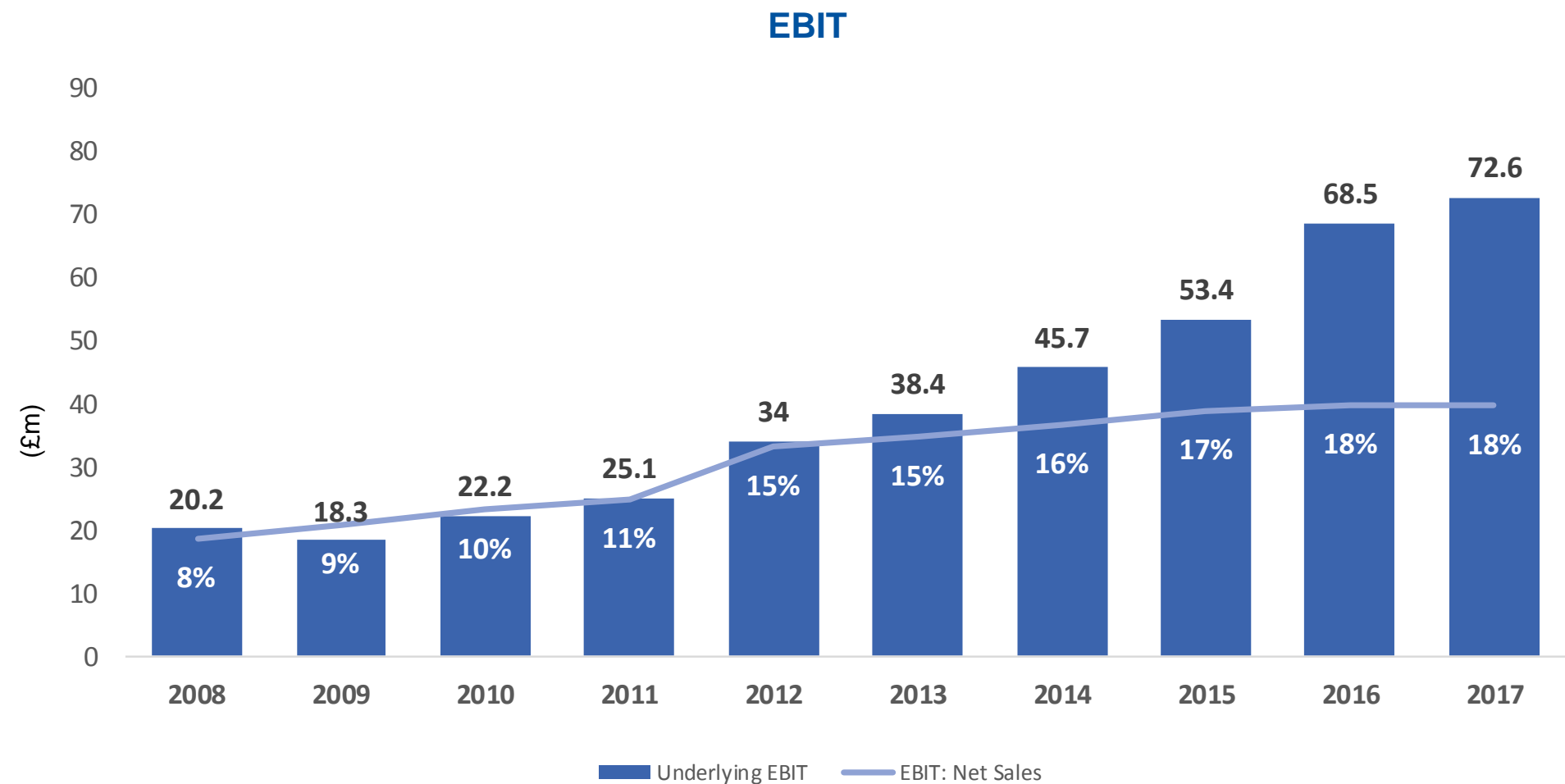




# Eighth consecutive year of progress

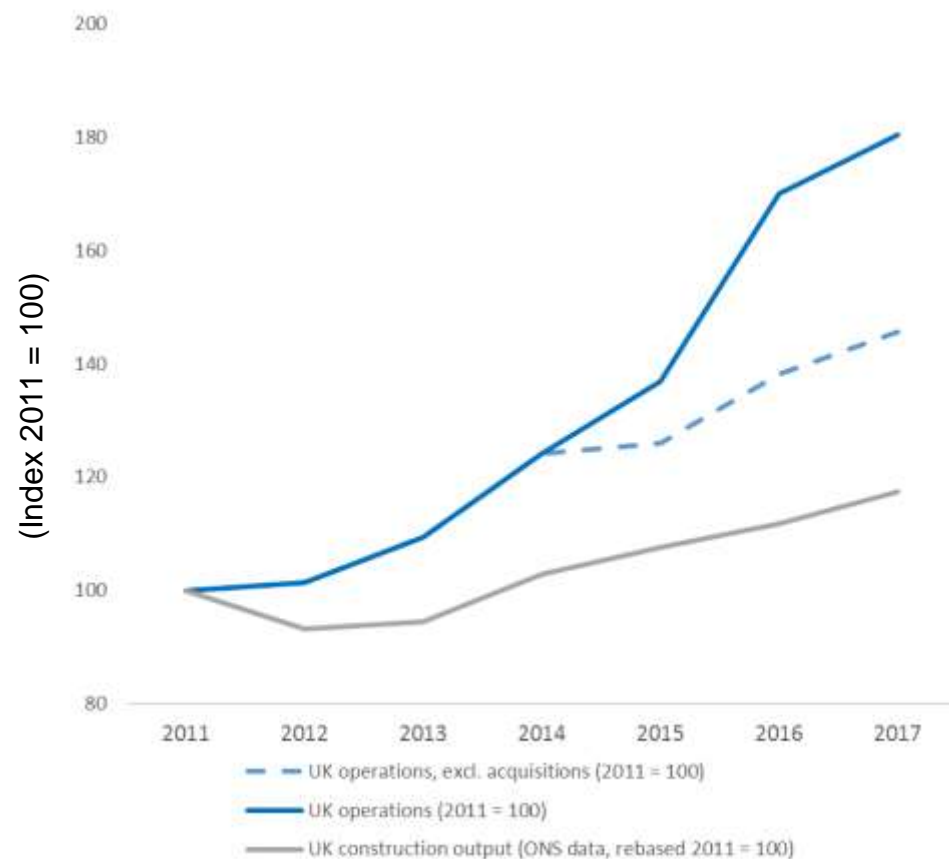


# Eighth consecutive year of progress



# UK sales growth consistently ahead of the market

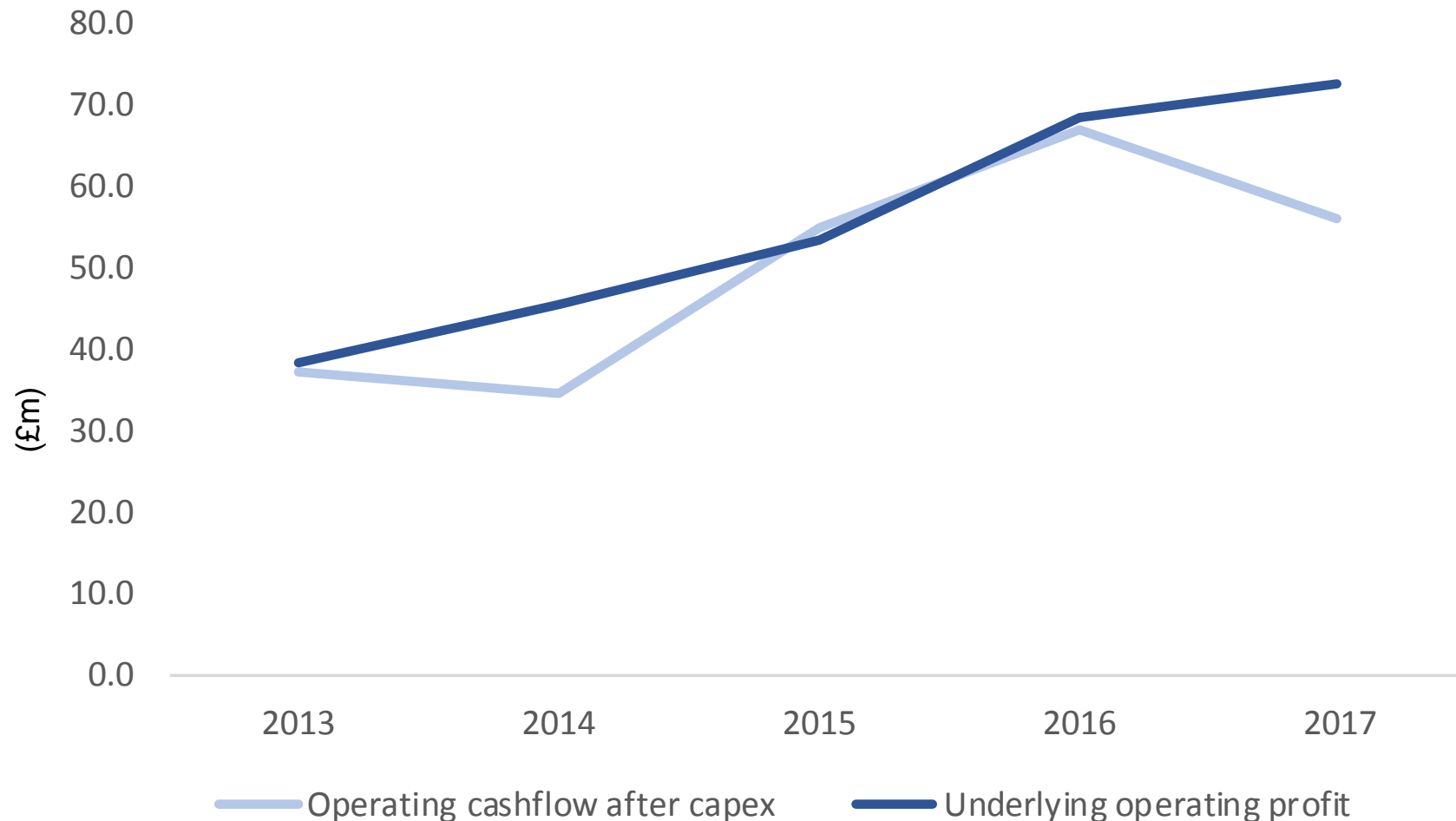
Index of sales growth compared to UK construction output



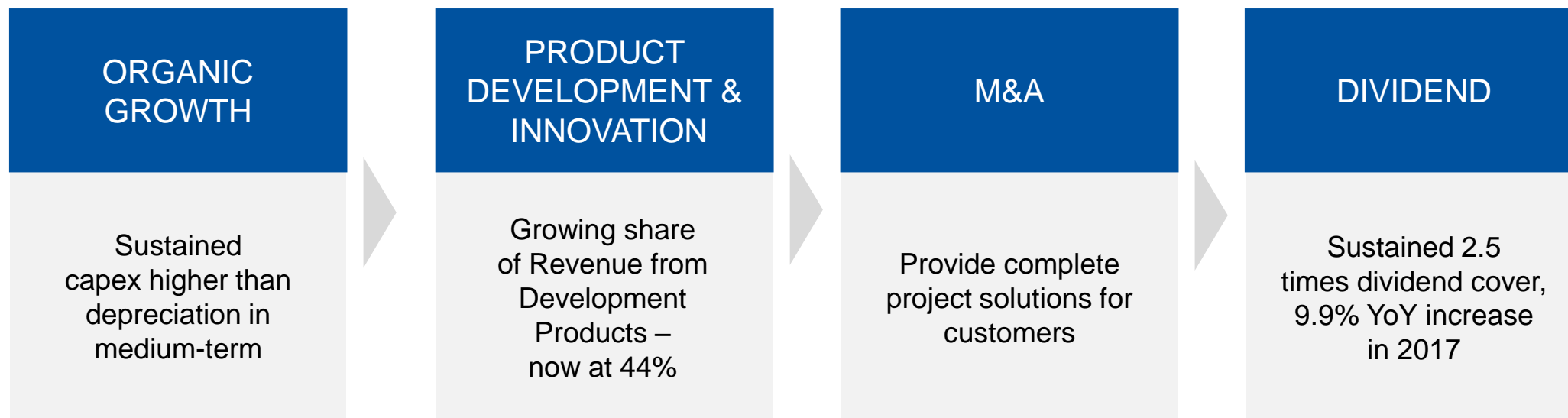


# Strong cash generation

- 5-year average 90% cash conversion
- Capex ahead of depreciation
  - capex over 5 years = £92m; depreciation over 5 years = £70m
  - To underpin continued market outperformance
- No defined benefit pension scheme



# Allocating capital



# First impressions

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Financials

Managerial reputation

Strategy intuitively makes sense

Customer focus

Passion at all levels

Real and impressive innovation

Recycling story

Premium placed on experience





# Investment case & Summary

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One of Europe's largest and most innovative manufacturers of plastic piping and energy efficient ventilation systems for the residential, commercial, civils and infrastructure sectors.

1. UK market leadership with balanced exposure to all sectors of the UK construction market. Long term fundamentals remain robust
2. Successful business model with significant barriers to entry
3. Significant structural growth opportunities
  - Substitution of legacy materials
  - Regulatory tailwinds from UK water and climate legislation
  - Aim to grow revenue 2-4% ahead of the market
  - Additional overseas opportunities
4. Proven financial track record
  - Profitable and cash generative
  - Deleveraging at pace
  - No defined pension scheme



# Questions & Answers





# Disclaimer

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The information contained in this presentation has not been independently verified and this presentation contains various forward-looking statements that reflect management's current views with respect to future events and financial and operational performance. The words "growing", "scope", "platform", "future", "expected", "estimated", "accelerating", "expanding", "continuing", "potential" and "sustainable" and similar expressions or variations on such expressions identify certain of these forward-looking statements. Others can be identified from the context in which the statements are made.

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 **Polypipe**