



Reducing water use in homes

Julie Spinks

MD of Water Regs UK

About us

Encouraging compliance with the water fittings regulations & byelaws



Promote regulations
& byelaws



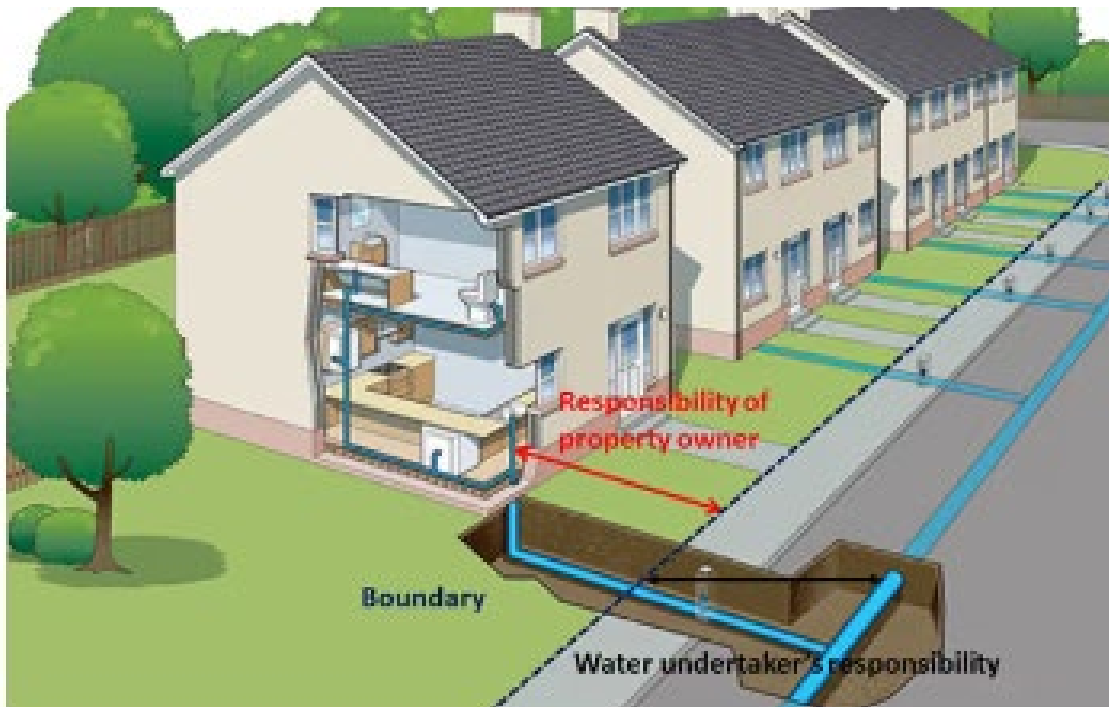
Approve plumbers
& contractors



Engage policy
makers



Support water
companies



- Aim to prevent contamination and waste
- Legal requirements for design, installation, operation and maintenance of water fittings

Water shortfall

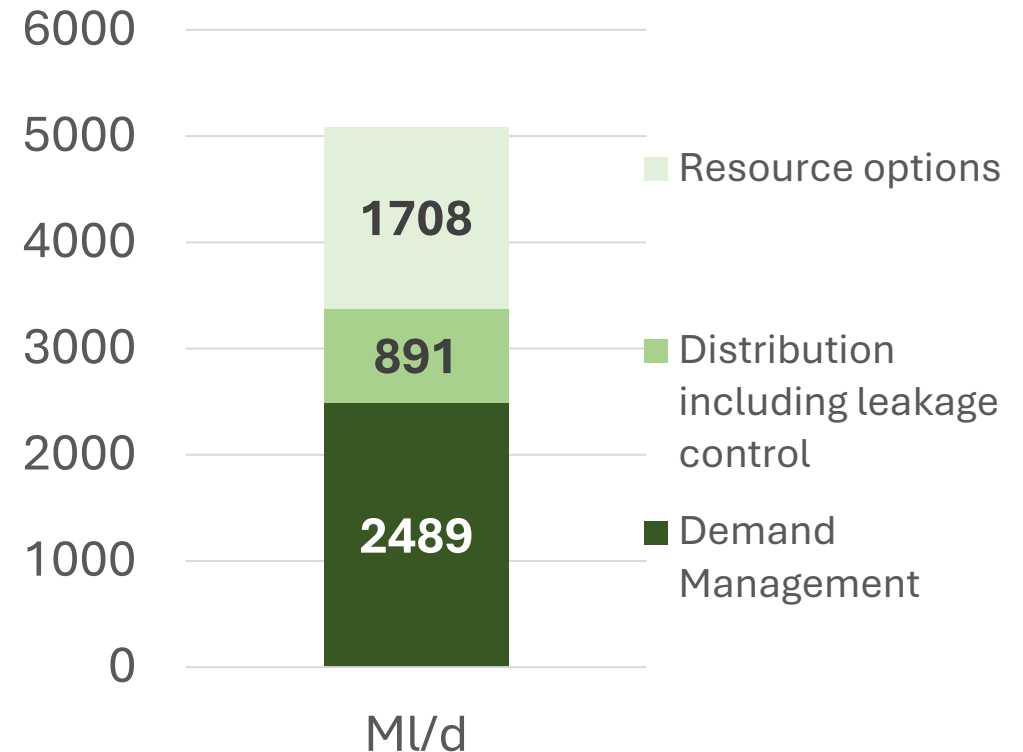
**Supply and demand
shortfall of nearly 5
billion litres per day by
2055* (England)**

**Twin-track approach: delivering new supplies
of water; and reducing water demand, by
improving water efficiency and reducing
leakage**



Environment
Agency

Solutions by 2050



Water efficiency roadmap

new developments and retrofit

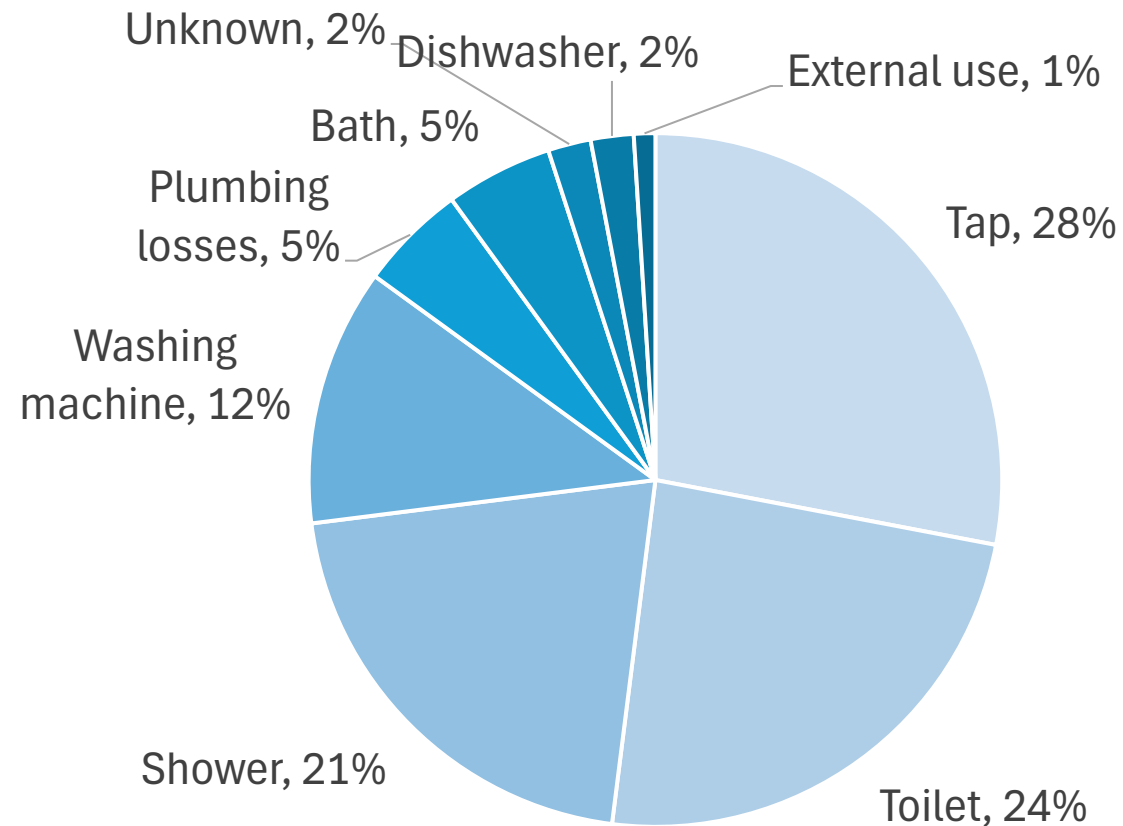


Ten actions over ten years:

1. SUDS and **rainwater reuse**
2. **Review water fittings** regs and other legislation to address leaky loos & enable new water efficient technologies.
3. Net zero guidance and **developer incentives**
4. Review water efficiency options in planning and building regulations
5. Water industry play a central role in **retrofitting water efficient products**
6. Integrate water efficiency into energy efficiency advice and retrofit programmes
7. **Review building regulations** - fittings-based approach linked to the water efficiency label to achieve p.c.c.
8. **Mandatory water efficiency label** 2025
9. Investigate dual pipe systems and **water reuse** options (new build)
10. Enable **innovative water efficiency approaches** in buildings

Where is water used in the home?

Average household micro- components of water use
UKWIR 2016



Reuse - opportunities



Toilets



Outdoor use



Laundry



**Recirculating
showers**

Reuse – must be safe

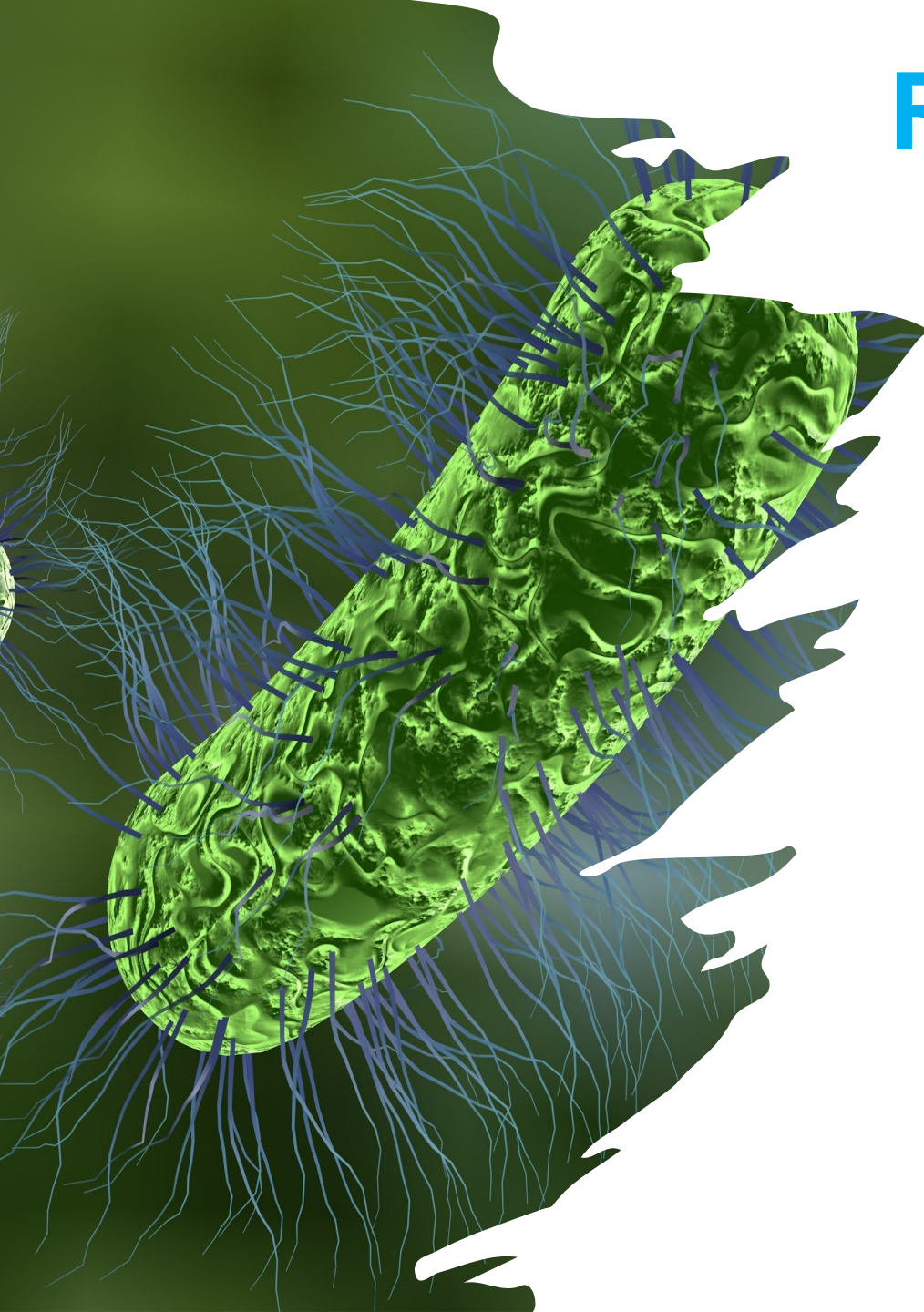
Risks

- Cross-connection and backsiphonage
- Ingestion
- Inhalation of aerosol
- Hand to mouth transmission
- Skin or eye contact



Reuse – safeguards

- Water quality standards for water re-use
- Manufacturers design appropriate treatment & maintenance
- Legislative change
- Clear accountability and ownership of systems
- Need competent and accredited workforce to install and maintain
- Notification
- Enforcers defined with appropriate powers



For more information



www.WaterRegsUK.co.uk