Topics and potential of ARIS

Stefan Prakesch

ARIS GmbH

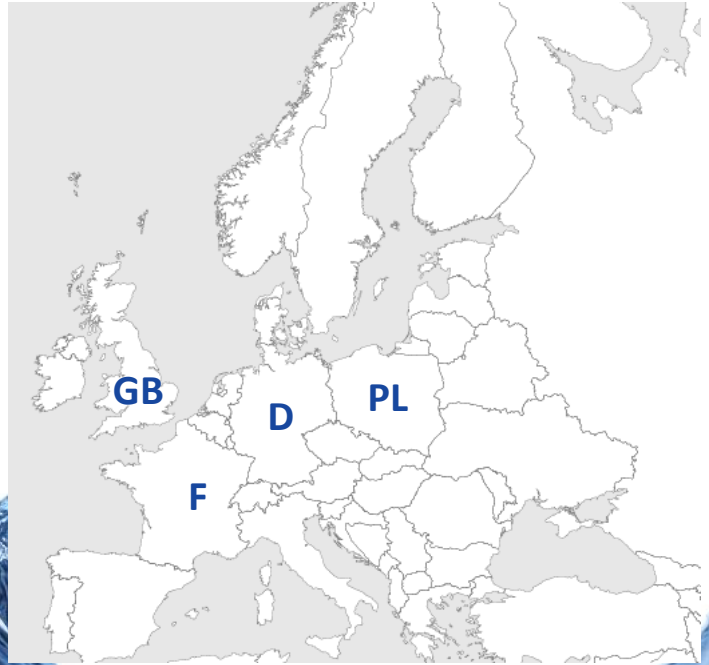
ARIS – the enterprise

- Targets since 1997

  Establish Rainwater Harvesting in large buildings
  (e.g. Industry, Commerce, Hospitals, Schools, Airports, Railway Stations, Sports facilities, Agriculture, …)

- Human resource
  - 28 people
  - 8 nations

- Fields of activities today
  - Rainwater Harvesting and Rainwater Management
  - Holistic Rainwater Management combining water efficiency, microclimate improvement and flood prevention
  - Greywater Recycling (incl. Heat Recovery)
  - Fire Fighting Water Storage and Supply Systems
  - Lifting Stations for Rainwater and Wastewater
  - Seperation Stations for the hygienic separation of Potable and Non Potable Water Systems



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ARIS Portfolio

Infiltration
ARIS NiDA

Greywater recycling
ARIS BiOCYCLE

Intelligent cistern
ARIS SMART COLLECT

Rainwater harvesting
ARIS LUPO filter, ARIS LUPO cistern, ARIS ARGUS R and ARIS XiON rainwater units

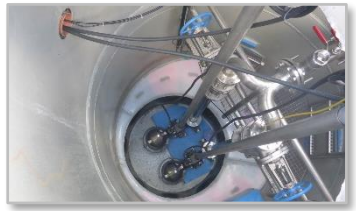
Fire Fighting Water Retention
ARIS COLLECT

Rainwatermanagement
ARIS COLLECT, ARIS LiMiT, various Treatment systems and flow regulators

Fire Fighting Water Supply
Seperation station ARIS ARGUS L, Boosterpump system ARIS PiRANHA

Fire Fighting Water Storage
ARIS COLLECT

Lifting Stations
ARIS LiFT, ARIS OPTiMAT



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Case studies rainwater

Cooling in drinking glass production

Stölzle Weißwasser

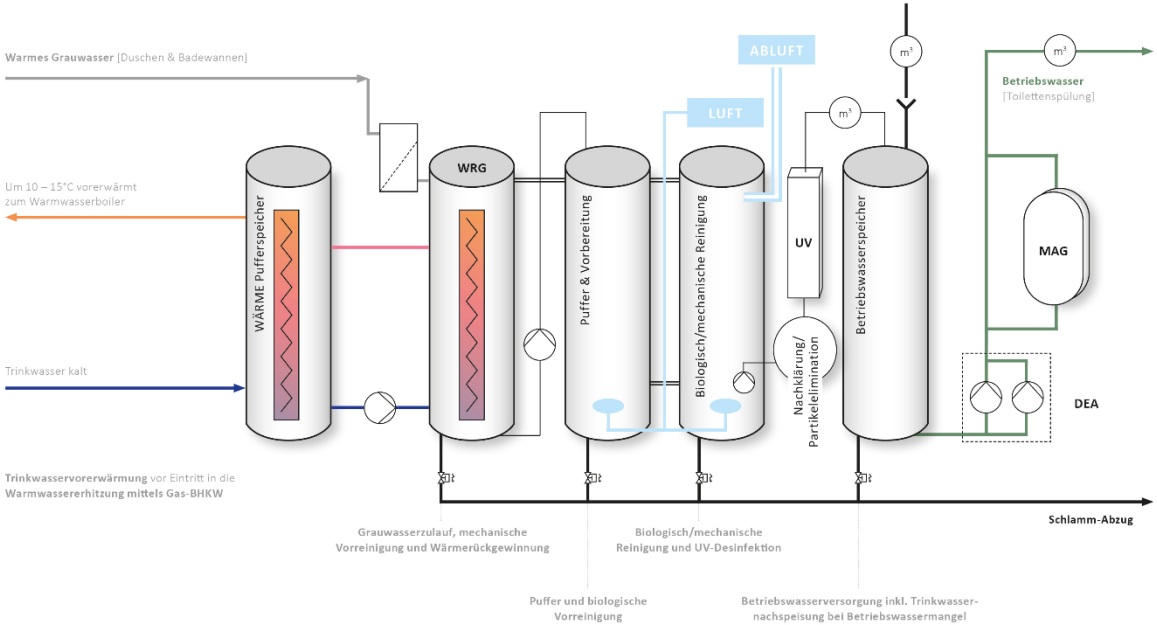
Cooling and Cleaning

Tesco Avenmouth

Vehicle Washdown

Kärcher Cleanpark Dettenhausen

Case studies greywater



Who we are looking for

direct project requests

Industry partners

representational partner

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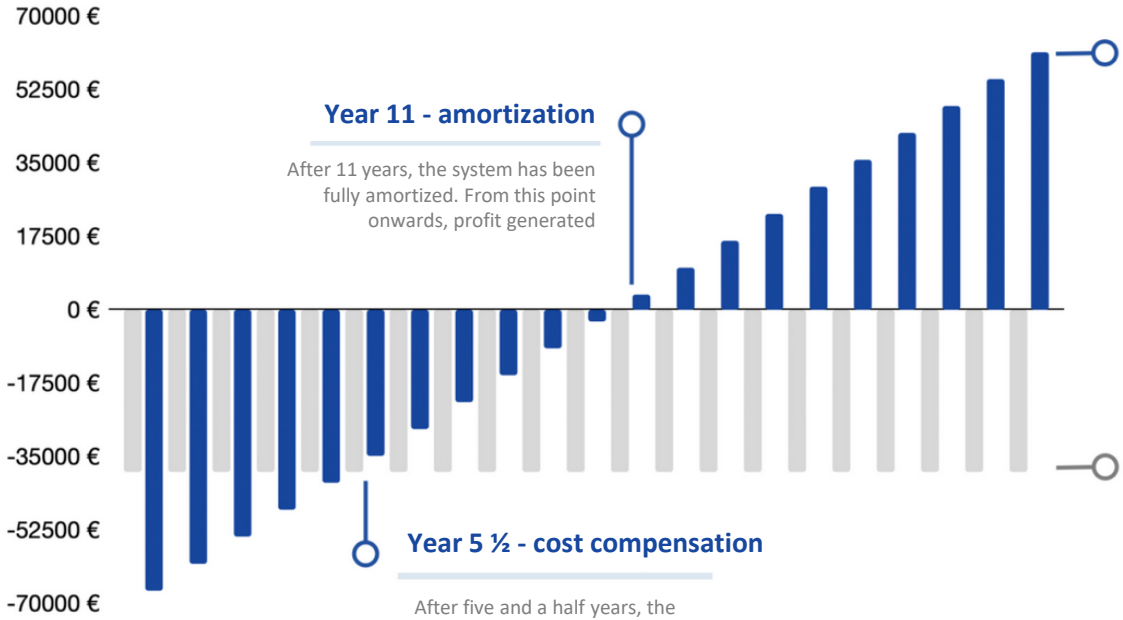
Water quality comparison

	Cistern water	Bathing water[1]	Convenience Salads[2]	Mixed salads[2]
Keimzahl 20°C	1.200/ml[4]	-[3]	-	50.000.000/g
Keimzahl 37°C	230/ml	-	1.000.000/g	-
E.coli	26/100 ml	2.000/100ml	1.000/g	1.000/g
Colif. Bakt.	198/100ml	10.000/100ml	-	-
Salmonellen	0/1.000ml	0/1.000ml	0/25g	0/25g
Staph. Aureus	0/100ml	-	1.000/g	-
P. aeruginosa	87/100ml	-	-	-

[1] EG-Richtlinie 76/160 EWG
[2] DGHM-Kommission Lebensmittel Mikrobiologie (DGHM, 1990, 1992)
[3] Untersuchung wird nicht gefordert
[4] Medianwerte

Quelle: Reinhard Holländer „Gesundheitswesen 58“ (1996)

comparison of the amortization process



Year 20 - > 61.000 €

After 20 years, the system has not only financed itself, but has also generated more than € 61,000

Year 11 - amortization

After 11 years, the system has been fully amortized. From this point onwards, profit generated

Year 20 - loss

Over 20 years, the system has recorded an annual “loss” of €1,900

Year 5 ½ - cost compensation

After five and a half years, the additional investment in retention is offset by smart use

Investment in rainwater retention **(rwr)**

Investment in rwr including rainwater harvesting

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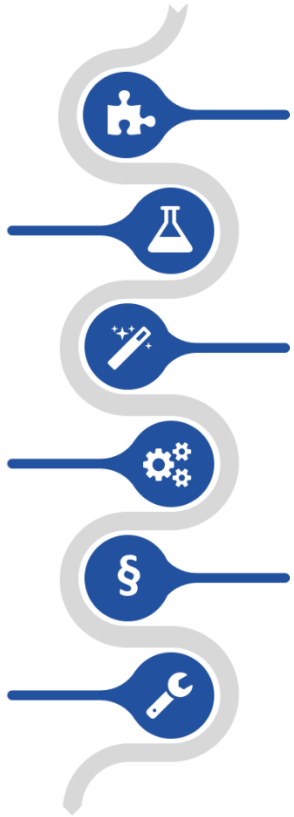
principals of operation from α to Ω



Support of planning process

From the conception in planning offices to the preparation of tender texts, we accompany projects from the very beginning

manufacturing

Whether on the construction site, as with ARIS COLLECT containers, or in our factory. Each project is manufactured individually

installation

We carry out the installation of our products on site or coordinate it with qualified specialist partners

initiation

Commissioning by our customer service team gives you the certainty that your ARIS system has been installed correctly and is working properly

warranty

ARIS assumes the overall warranty for all projects. For ARIS COLLECT systems according to VOB

maintenance

With regular, qualified maintenance, you not only ensure many years of reliable and efficient operation, but also our warranty extension to five years

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