

SMURF
 SUSTAINABLE MANAGEMENT
 of URBAN RIVERS and
 FLOOD PLAINS

SUD'S.

Case Study River TAME: West Midlands/Birmingham/Black Country

SUSTAINABLE MANAGEMENT

THE PROBLEM

- Heavily industrialised area
- Urban/Industrial area
- sewage, industrial waste
- Toxic chemicals/Plastics
- M6 Motorway
- Heavily modified river
 - Culverting
 - Straightening
 - concrete banks
 - few natural features
- Poor water quality
- Little life/ecology
- Flashy river → floods (2007)
 ↓ slow flow

- Waste regulations to reduce pollution from Urban/Industrial area. LOCAL COUNCIL/GOVT
- Improvement of sewage works to improve water quality.
- Re-introduction of natural river features:-

- Braiding
- Meanders
- Riffle/pool sequences
- Widening

ENVIRONMENT AGENCY

SEVERN/TRENT WATER AUTHORITY

- Lea Marston purification lakes/wetlands
 - slow flow - pollutants settle - contaminated sludge removed (No longer needed)
- Ecological improvements - reeds/rushes planted
 - remove weirs/hard banks to aid migrating fish/Ladywalk Nature Reserve/hides - RSPB/VOLUNTEERS
- Flood Management - raise defences - improve flood warnings - improve flow - remove sediment/gravel
ENVIRONMENT AGENCY SEVERN/TRENT WATER