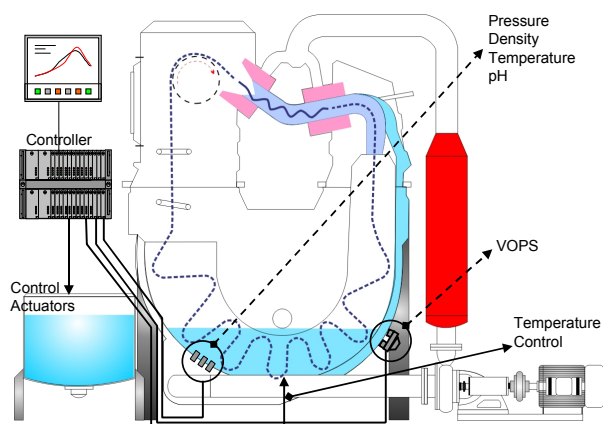




EDY – Efficient Dyeing



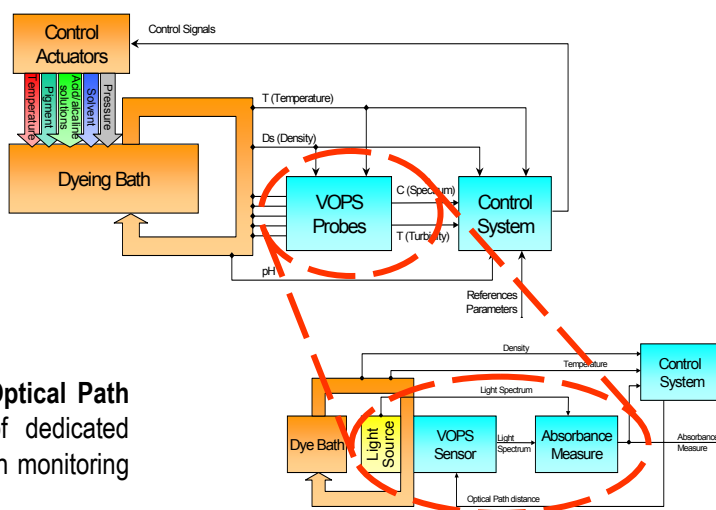
Development of a Clean and Efficient Automatic Textile Dyeing Control System



EDY project aims at providing the textile-finishing industry with an **efficient, cost-effective tool for monitoring and controlling the process of fabric and yarn dyeing.**

System Architecture

EDY project is based on the applications of the **Variable Optical Path Spectrographic technology** and on the development of dedicated spectral elaboration algorithms for the continuous dyeing-bath monitoring and control.



VOPS probe

Technical advantages

- ⇒ provides a **reliable and accurate** spectral observation of the dyeing bath available throughout the whole dyeing process as it is able to modify the probe optical path and eliminate the measurement obstacle coming from the wide absorbance variation of the fluids during the dyeing process
- ⇒ allows **high-speed control reactions** due to the reduced measurement times resulting in high-sampling rates of the process variables
- ⇒ has a **compact and rugged structure** that allows to be installed in extreme plant conditions

The partnership

The research and development of the system is based on the experience of the Consortium that involves **IrisDP** as Coordinator, **D'Appolonia**, **Citeve** and **DV** as researchers, **Felli Color**, **Croserio**, **ATB**, **Giussani**, **Macrosystems**, **Gesten** and **Pecco & Malinverno** as industrial partners.



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