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Microbiologie et biotechnologie de  
l'environnement et industrielle  
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## Madep – The BIOSTEP bioprocess

### For efficient biological treatment of ACTIVATED SLUDGE

**Objectives :**      **Improve global wastewater treatment efficiencies**  
                                **Removal of filamentous bacteria, bulking and foaming**

(réf. cited : WWTP in Payerne, Switzerland - period 2007 to 2018)

<b>BEFORE the treatment BIOSTEP of MADEP.</b>	<b>AFTER the treatment BIOSTEP of MADEP</b>
<b>Biological basin (activated sludge)</b> 	<b>Biological basin (activated sludge)</b> 
<b>Biological basin (activated sludge)</b> 	<b>Biological basin (activated sludge)</b> 
<b>End biological basin (activated sludge)</b> 	<b>End biological basin (activated sludge)</b> 
<b>Outlet of the secondary clarifier (exit WWTP)</b> 	<b>Outlet of the secondary clarifier (exit WWTP)</b> 