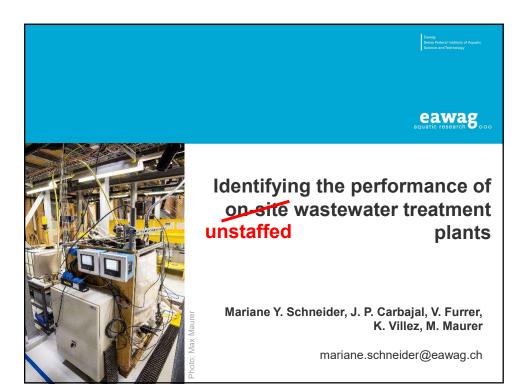
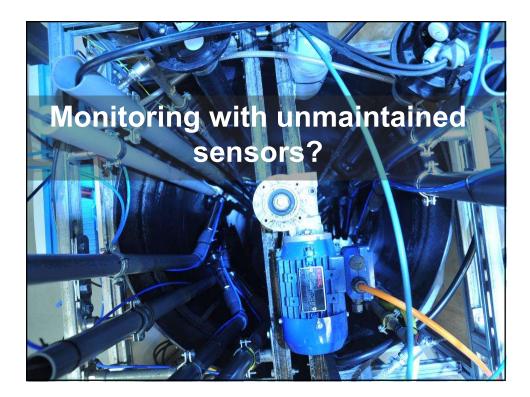
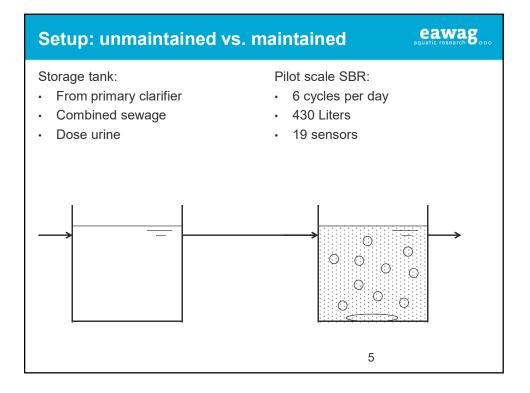


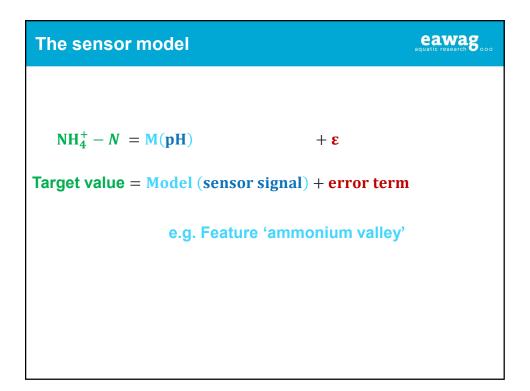
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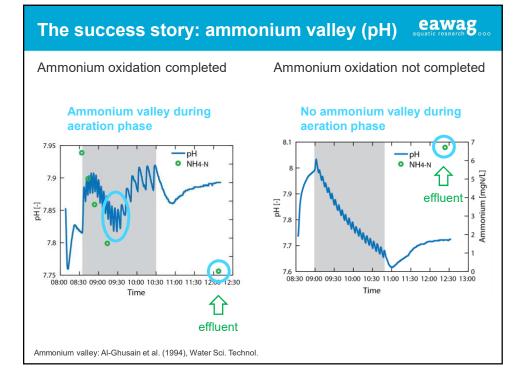
Eawag: Swiss Fede



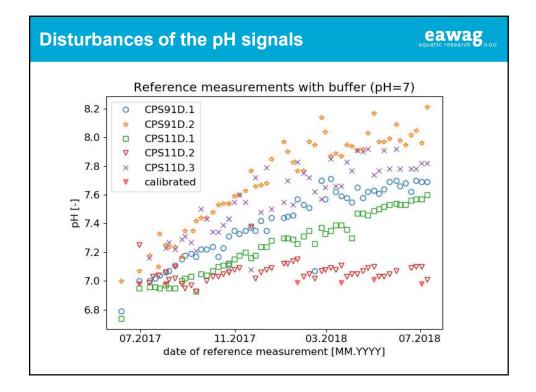


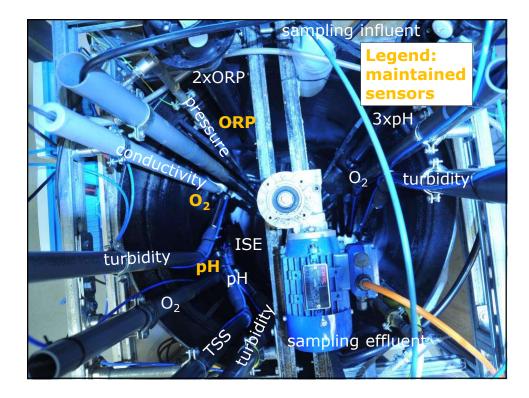


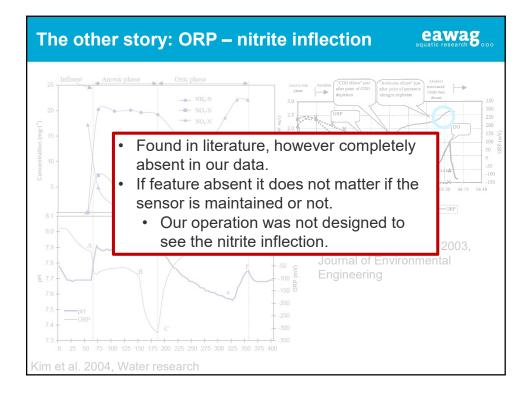




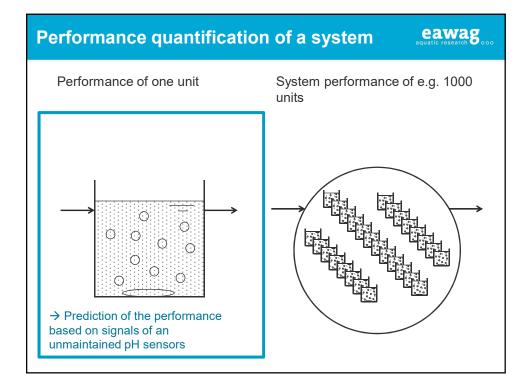
Result automatic detection of NH <sub>4</sub> valley									Va earch	000		
maint.	Maintained pH sensor	Actual class (measured of ≤ 1 mg-N/L > 1 r							effluent conc.) mg-N/L			
unm. unmaintained pH sensor	maint.					maint.			unm. 3	unm. 4		
		41	40	41	40	40	1	1	1	1	1	
		15	16	15	16	16	50	50	50	50	50	
<ul> <li>If a valley is detected, the ammonium oxidation is completed.</li> <li>No difference between maintained and unmaintained sensors:</li> <li>➤ The ammonium valley is a robust feature against offset.</li> </ul>												



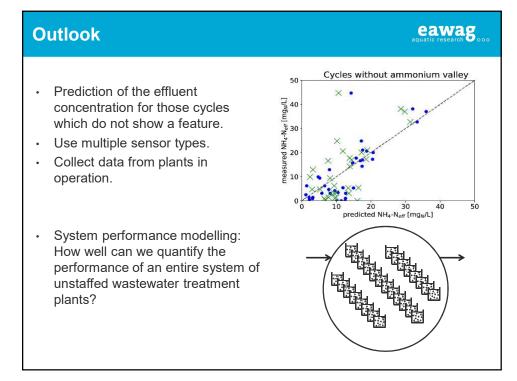












Result automatic detection of NH <sub>4</sub> valley										0000	
maint.	Maintained pU appear	Actual class (measured effluent conc.) < or = 1 mg-N/L > 1 mg-N/L									
unm.	Maintained pH sensor unmaintained pH sensor	maint.		0			maint.			unm. 3	unm. 4
Predicted	Ammonium valley detected	41	40	41	40	40	1	1	1	1	1
class (feature observed)	No ammonium valley detected	15	16	15	16	16	50	50	50	50	50
<ul> <li>If a valley is detected, the ammonium oxidation is completed.</li> <li>No difference between maintained and unmaintained sensors:</li> <li>➤ The ammonium valley is a robust feature against offset.</li> </ul>											



