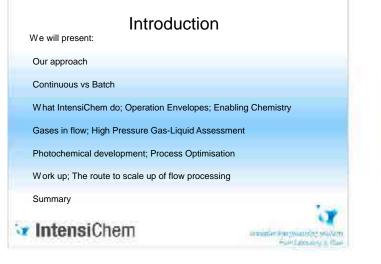
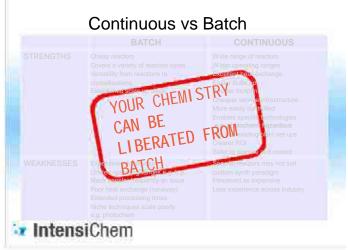
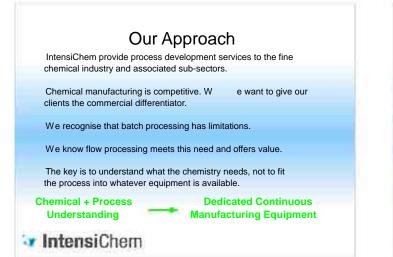
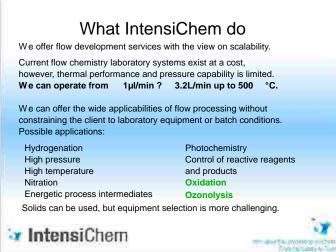


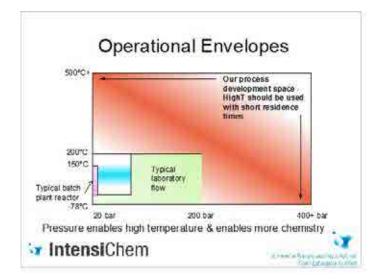
	Continuous vs Batch		
	BATCH	CONTINUOUS	
STRENGTHS	Cheap reactors Covers a variety of reaction types Versatility from reactions to crystallisations Established scale up steps	Wide range of reactors Wider operating ranges Excellent heat exchange Easier scale up Smaller footprint Cheaper service infrastructure More easily controlled Enables specific technologies e.g. photochem; hazardous Fits into existing plant set-ups Clearer ROI Safer to operate and control	
WEAKNESSES	Expensive infrastructure Limited operating ranges e.g. b.p. Heterogeneous reactions and niche techniques scale poorly e.g. photochem Poor heat exchange (runaway) Extended processing times OQS takes out a whole batch: Reworks	Specific reactors may not suit custom synth paradigm Perceived as expensive Less experience across industry	

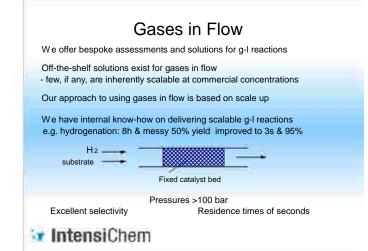


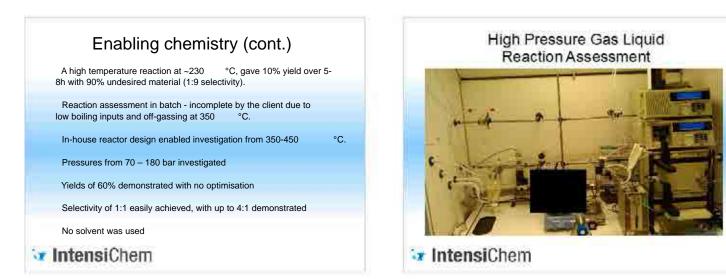


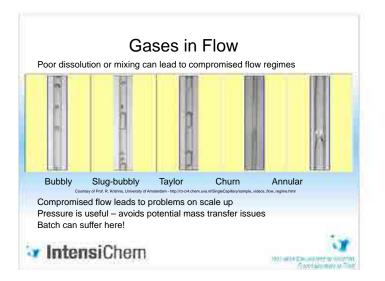




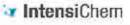


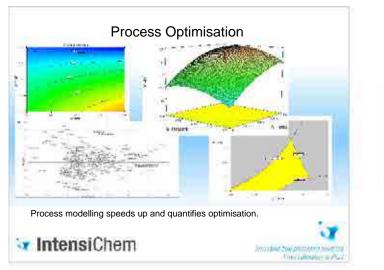


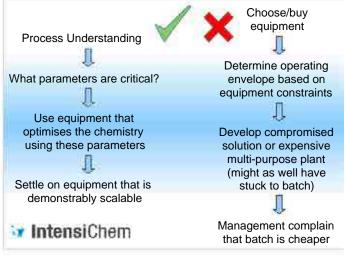


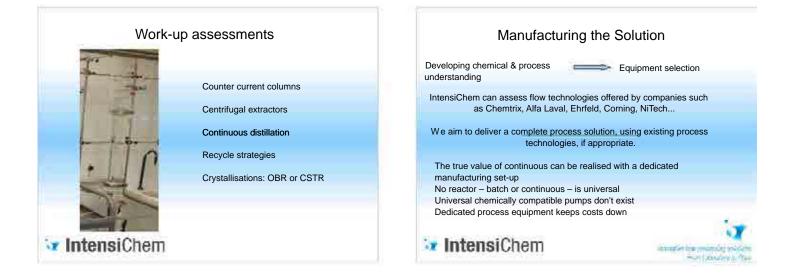


Photochemical Development Designs are kept simple and bespoke to the process required Image: Constraint of the process requ









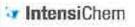
Process Scale Up

Our laboratory activity will generate process understanding We can achieve throughput through reducing reaction times to minutes or seconds.

Even smaller lab equipment based rigs can deliver small commercial quantities: 200ml/min ? 30-90kg/day

Our current largest laboratory pump at 3.2L/min @ 10% concentration = ~14MT/month

It is important to demonstrate the process at intermediate scale with small, demonstrably scalable process flow technology



Summary

IntensiChem can offer flow process development services not possible with current laboratory based offerings.

IntensiChem's scalable approach is to minimise constraints that are built into the current batch paradigm.

 Access is possible to a large range of:

 Temperatures:
 -78 - 500 °C

 Pressures:
 400 bar +

 Flow rates:
 1µl/min – 3.2L/min

We're not a vendor, so not constrained to technology or conditions. And don't push a technology until the process is understood.

Dedicated process equipment means not having too many pumps, control systems or redundant equipment in general.

🛛 IntensiChem