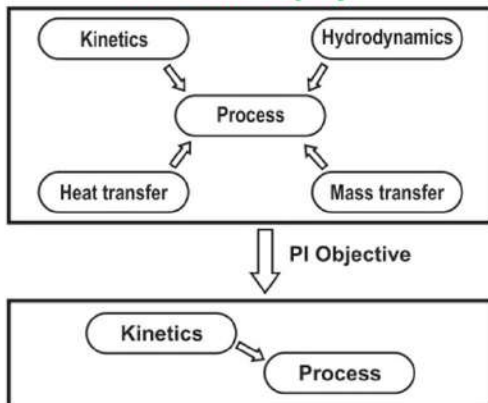




PI : is a design strategy to adapt the **Process to the Chemical Reaction**

### Pi-Philosophy



### Pi - Benefits

- Reduced CAPEX & Opern **COSTs**
- Smaller **equipment / plant**
- High reaction **selectivity**
- High Product **Purity**
- Less **Waste** / by-products
- Precise **Process Control**
- High Process **Safety**
- In-built **QbD**
- Short **time-to-market**
- **Operational Excellence**

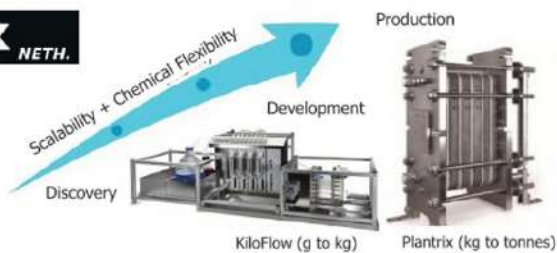
### Business Partners / Principals



Flow Chemistry Proccs Equipment  
High Heat Transfer & Chemical Flexibility

- KiloFlow
- Plantrix (EKasic® SiC)

[www.chemtrix.com](http://www.chemtrix.com)



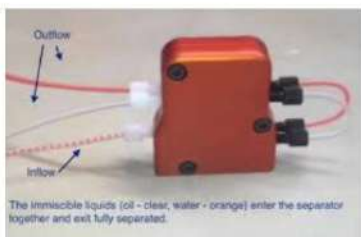
Liquid-Liquid Extractors / Separators



**Zaiput Flow Technologies**

Groundbreaking Innovations in Flow Chemistry

USA



[www.autichem.co.uk](http://www.autichem.co.uk)

**Form 3 Flow Reactor**



**DART-DM50L Flow  
Reactor**



**Process Intensification** Experts LLP.

**INNOVATIVE MANUFACTURING SOLUTIONS**

for

**Continuous / Flow Processing**

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**Slurries / Immiscible-Liquids**

**Gas-Liquid / High Exotherms**

**Business Partners / Principals**



[www.vapourtec.co.uk](http://www.vapourtec.co.uk)

**Vapourtec**  
UK

- Flow Chemistry Reaction System
- -70° - +250°C, | 200 bar
- 7 reactor types

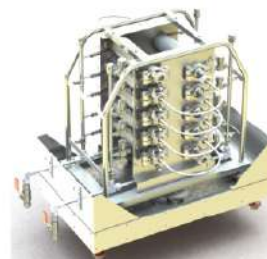


**Coflore®**  
Flow Reactors

[www.amtechuk.com](http://www.amtechuk.com)

**AM Technology**  
UK

- **Agitated Cell** Reactor
- **Agitated Tube** Reactor  
Synthesis / Crystallization  
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**KinetiChem, Inc.**  
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- High Shear Film  
Reactor
- Crystallizer
- Gas / Liquid Film Reactor



[www.dalalengineering.com](http://www.dalalengineering.com)

**Dalal Engineering P. Ltd.**



- **Intensificator** Reactor

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