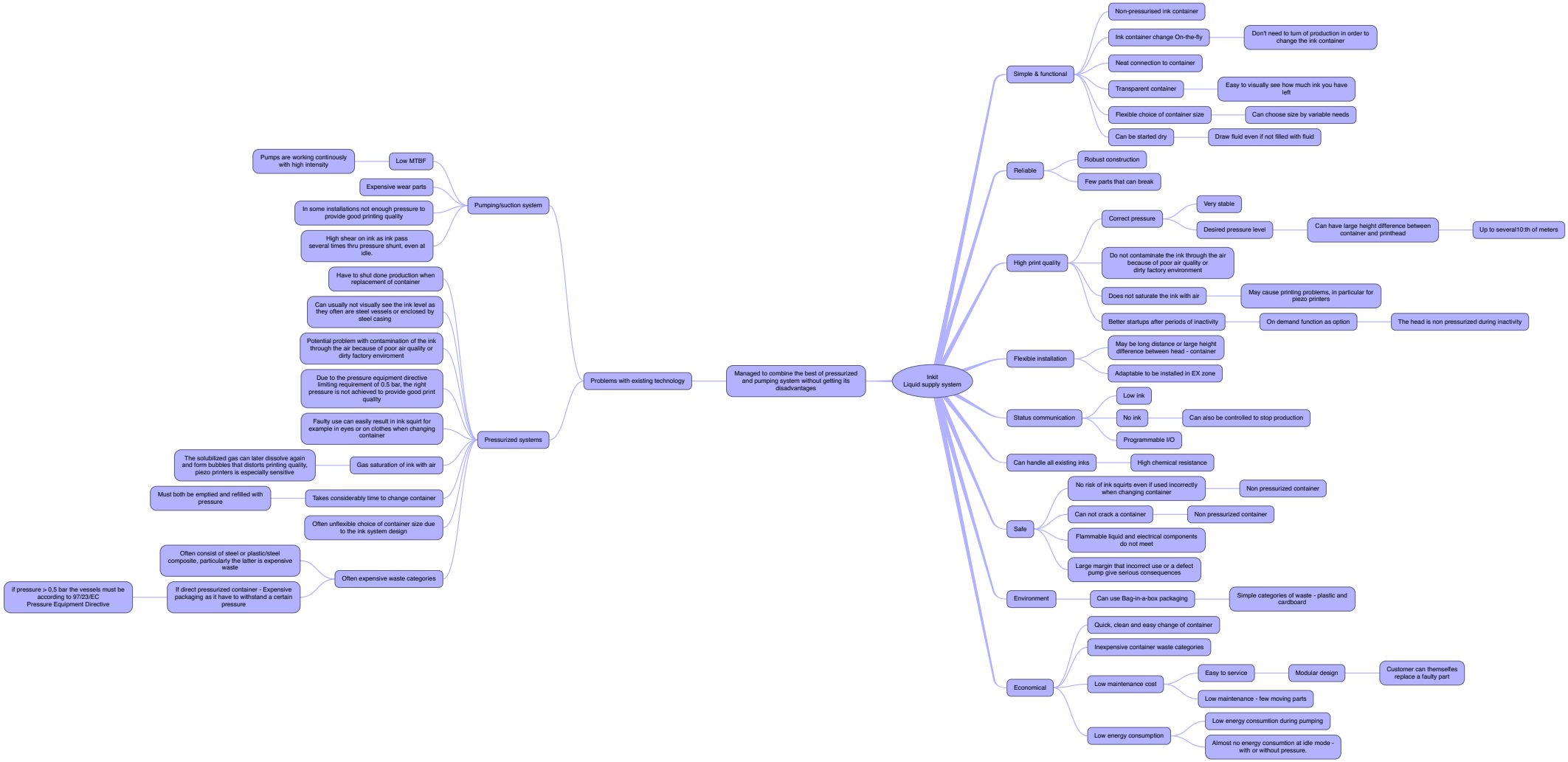
Inkit
Liquid supply system
Simple & functional
Non-pressurised ink container
Ink container change On-the-fly
Don't need to turn of production in order to change the ink container
Neat connection to container
Transparent container
Easy to visually see how much ink you have left
Flexible choice of container size
Can choose size by variable needs
Can be started dry
Draw fluid even if not filled with fluid
Reliable
Robust construction
Few parts that can break
High print quality
Correct pressure
Very stable
Desired pressure level
Can have large height difference between container and printhead
Up to several10:th of meters
Do not contaminate the ink through the air because of poor air quality or dirty factory environment
Does not saturate the ink with air
May cause printing problems, in particular for piezo printers
Better startups after periods of inactivity
On demand function as option
The head is non pressurized during inactivity
Flexible installation
May be long distance or large height difference between head - container
Adaptable to be installed in EX zone
Status communication
Low ink
No ink
Can also be controlled to stop production
Programmable I/O
Can handle all existing inks
High chemical resistance
Safe
No risk of ink squirts even if used incorrectly when changing container
Non pressurized container
Can not crack a container
Non pressurized container
Flammable liquid and electrical components do not meet
Large margin that incorrect use or a defect pump give serious consequences
Environment
Can use Bag-in-a-box packaging
Simple categories of waste - plastic and cardboard
Economical
Quick, clean and easy change of container
Inexpensive container waste categories
Low maintenance cost
Easy to service
Modular design
Customer can themselfes replace a faulty part
Low maintenance - few moving parts
Low energy consumption
Low energy consumtion during pumping
Almost no energy consumtion at idle mode - with or without pressure.
Managed to combine the best of pressurized and pumping system without getting its disadvantages
Problems with existing technology
Pumping/suction system
Low MTBF
Pumps are working continously with high intensity
Expensive wear parts
In some installations not enough pressure to provide good printing quality
High shear on ink as ink pass several times thru pressure shunt, even at idle.
Pressurized systems
Have to shut done production when replacement of container
Can usually not visually see the ink level as they often are steel vessels or enclosed by steel casing
Potential problem with contamination of the ink through the air because of poor air quality or dirty factory enviroment
Due to the pressure equipment directive limiting requirement of 0.5 bar, the right pressure is not achieved to provide good print quality
Faulty use can easily result in ink squirt for example in eyes or on clothes when changing container
Gas saturation of ink with air
The solubilized gas can later dissolve again and form bubbles that distorts printing quality, piezo printers is especially sensitive
Takes considerably time to change container
Must both be emptied and refilled with pressure
Often unflexible choice of container size due to the ink system design
Often expensive waste categories
Often consist of steel or plastic/steel composite, particularly the latter is expensive waste
If direct pressurized container - Expensive packaging as it have to withstand a certain pressure
if pressure > 0,5 bar the vessels must be according to 97/23/EC Pressure Equipment Directive