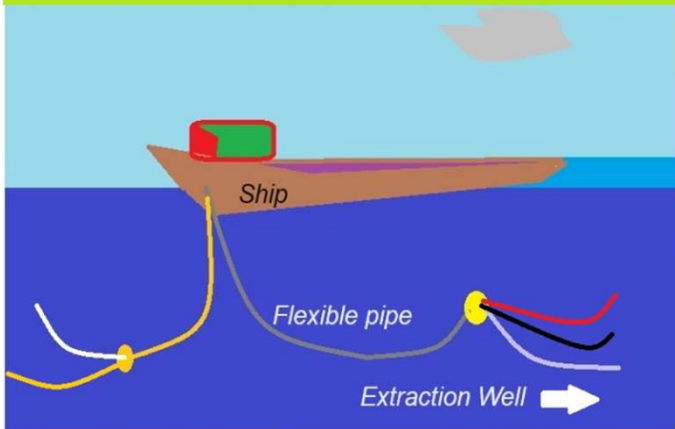


From Flexible Pipes to Hydraulic Capsule Pipelines

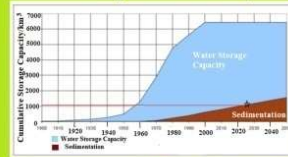


Many plastic and flexible pipes were installed since the 1970's to extract oil and gas. They are very difficult to recycle.

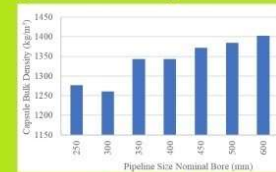
Decommissioning of off-shore wells is anticipated to cost \$200 Billion in the next few years.



Desilting Reservoirs respects water rights of Native Americans



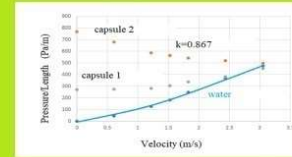
By 2050 a quarter of the water storage volume will be lost to sediments



HDPE DR 7 capsules filled with wet sand



There are 92,027 reservoirs in the nation, many need de-silting



At a certain velocity for capsules with overall bulk density of 1500 kg/m³, offers the same resistance as water

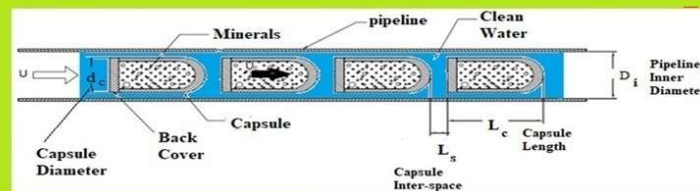
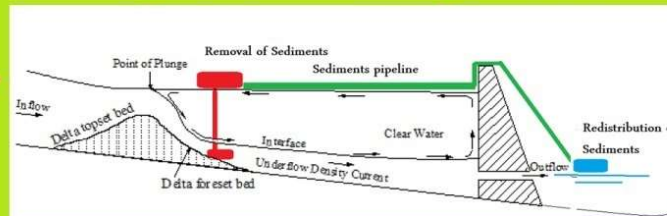


We invented a new capsule launcher and pump for sending capsules into a hydraulic pipeline

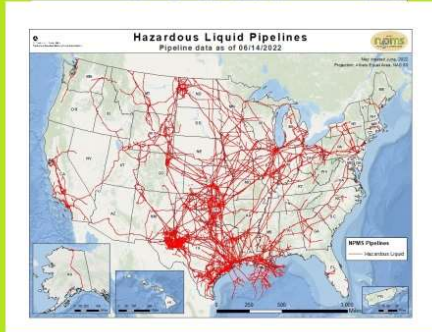
New job opportunities in decommissioning, repurposing pipelines and manufacture of capsules and their systems



We propose to cut them into smaller segments and fabricate capsules to transport goods in freight pipelines



Hydraulic capsule pipelines do not suffer from wear due to sediments and consume less water than slurry pipelines used in dredging and mining



As the US Economy moves away from fossil fuels many hazardous pipelines could be cleaned and repurposed into freight and capsule pipelines serving isolated and economically depressed communities with goods at lower emissions and lower cost than trucking