

# USC's Viterbi School of Engineering Expanded Focus on Smart Oilfield Technologies



## Intro

Building on its successful 13 years of operating the Center for Interactive Smart Oilfield Technologies (CiSoft) with Chevron, USC is expanding its partnership model into a broader “center of excellence” covering all aspects of its current and future smart oilfield strategy.

The new “center” is seeking new strategic partners with competencies in current smart oilfields, enabling expansion into new areas related to advanced sensors & monitoring, robotics, emerging analytics, data sciences, cyber & physical security, machine learning, and human-machine interfaces. The intent is to develop technologies and competencies in all aspects of integrated operations and smart oilfields.



## NexSoft

# Next Generation Smart Oilfield Technologies

## Vision

The next generation of digital oilfields is here.

To meet the industry challenges ahead,

With a track record of leading R&D in Smart Oilfield Technologies,  
USC offers an 'eco-system' of strategic partnerships

Committed to the required competencies

That enable innovations for new emerging areas, with

Business-focused R&D, education and commercialization sponsorship.



# Updated Model for a Changing World: Focus Areas

## “NexSoft”

Next Generation Smart Oilfield Technologies

Power

Downstream Leverage

Data Platforms & Analytics

Immersive Visualization & Modeling

Field Automation

Competencies:  
Petroleum Engrs  
Digital Engrs  
Digital Specialists

Information & Networked Systems

Integrity, Reliability & Resilience

Smart Equipment & Machine Learning

Integrated Production Operations

Robotics, AI & HMI

Cyber and Physical Security & Surveillance

MidStream Leverage

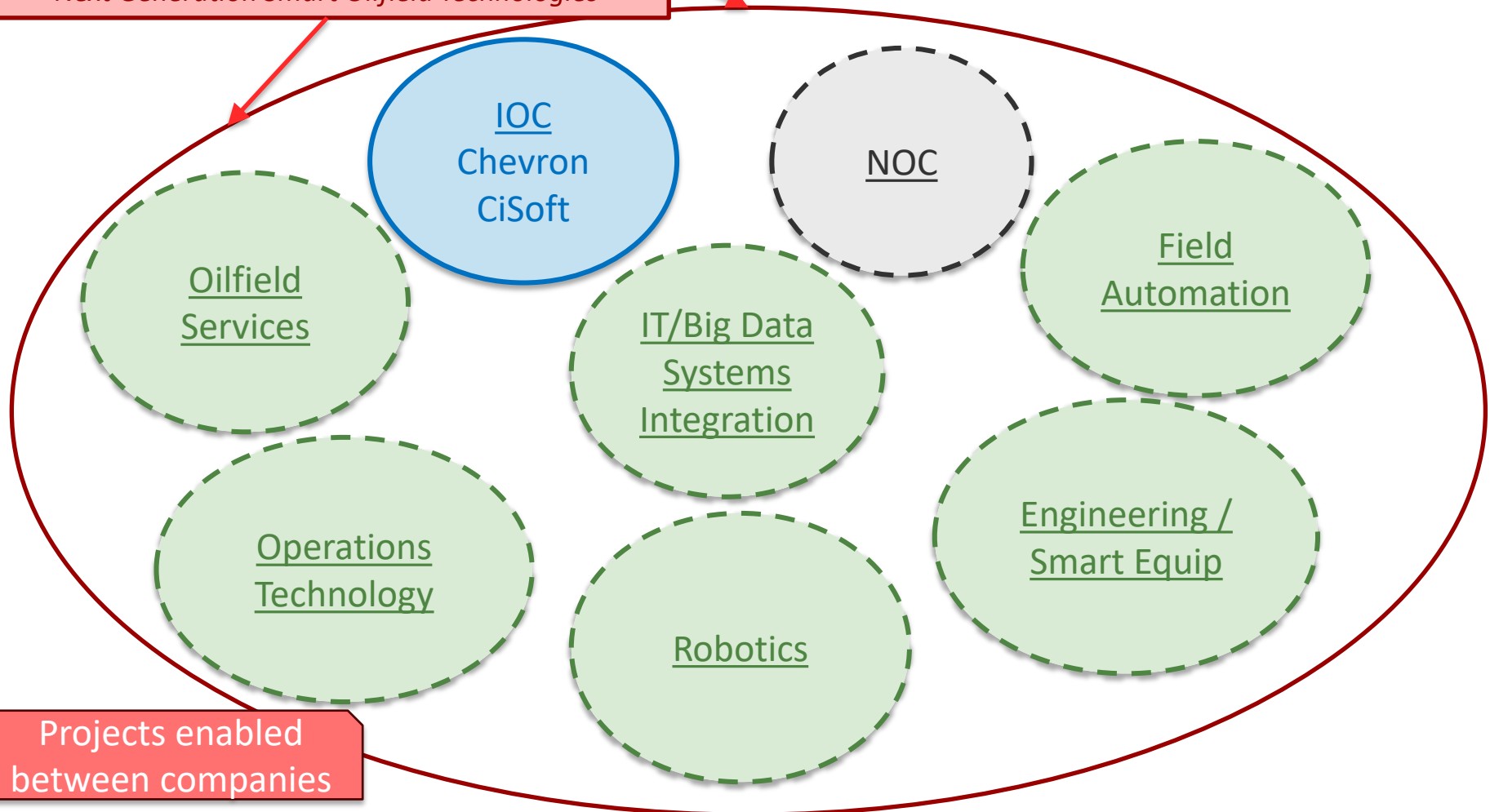
Medical Leverage

# Updated Model for a Changing World: Companies

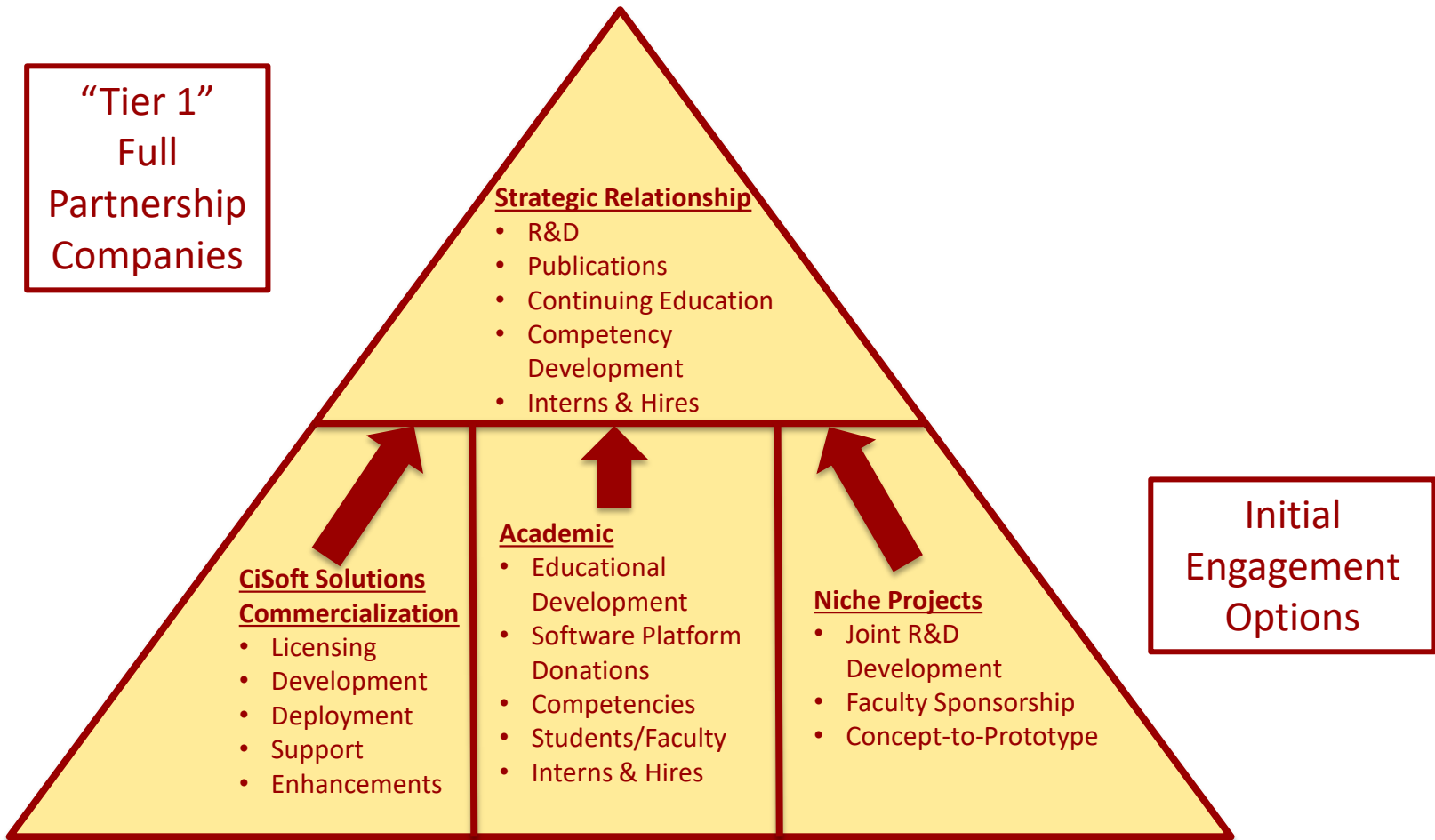


**“NexSoft”**

*Next Generation Smart Oilfield Technologies*



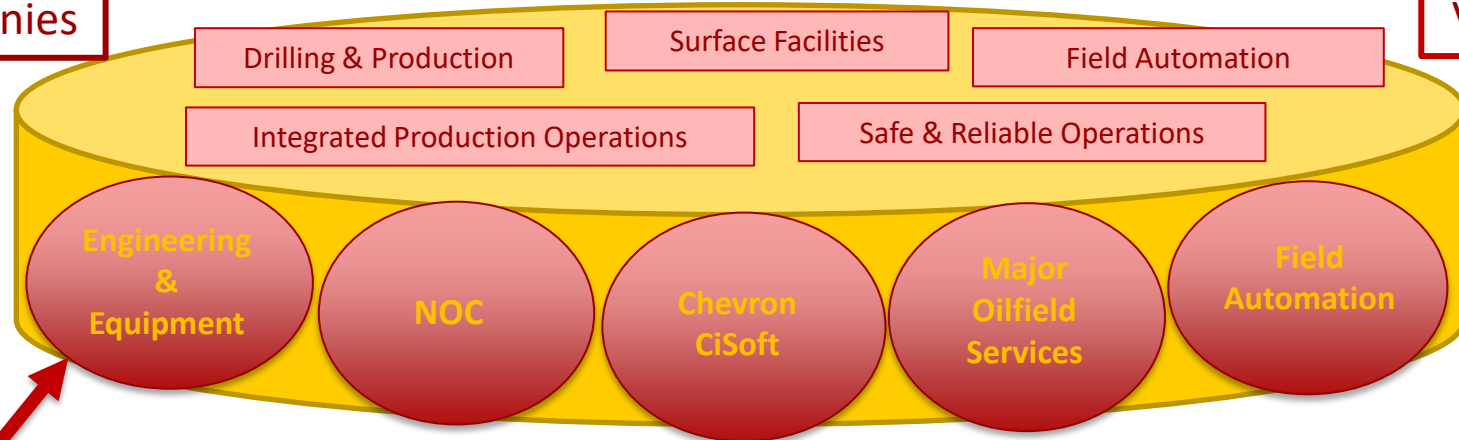
# Partner Participation Options



# NexSoft Operational Structure

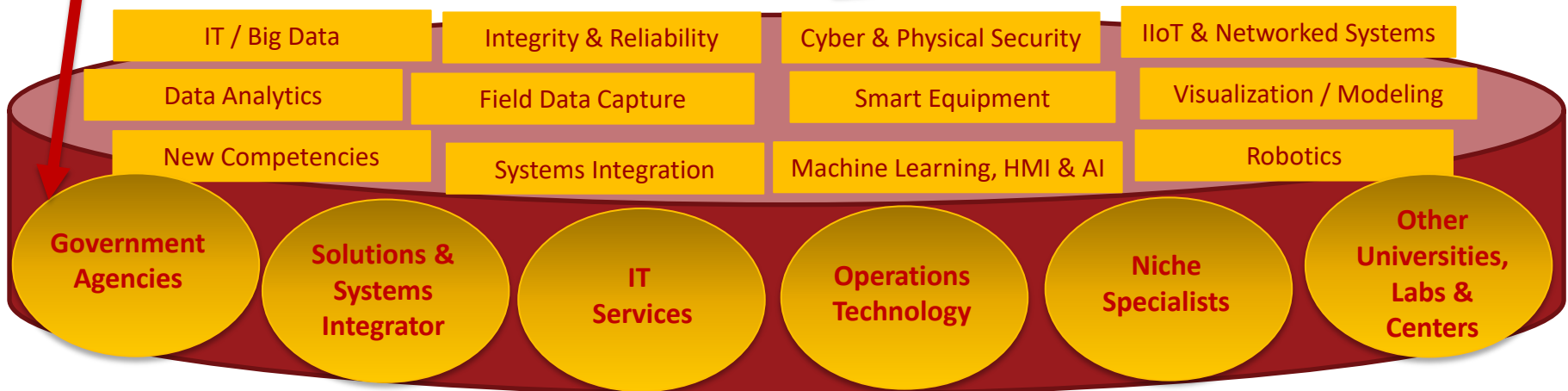
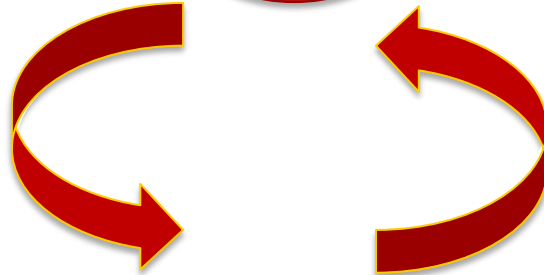
“Tier 1”  
Companies

OIL & GAS  
VERTICAL



NexSoft  
PARTNERS

CiSoft Solutions  
Licensing Agreements  
(managed outside of NexSoft)



ENABLING TECHNOLOGIES + CONNECTIONS TO OTHER INDUSTRY VERTICALS