



Water Conservation — Smart Solutions for the Oil & Gas Industry

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Operational Excellence Leader, Saudi Aramco

ORGANIZING PARTNERS



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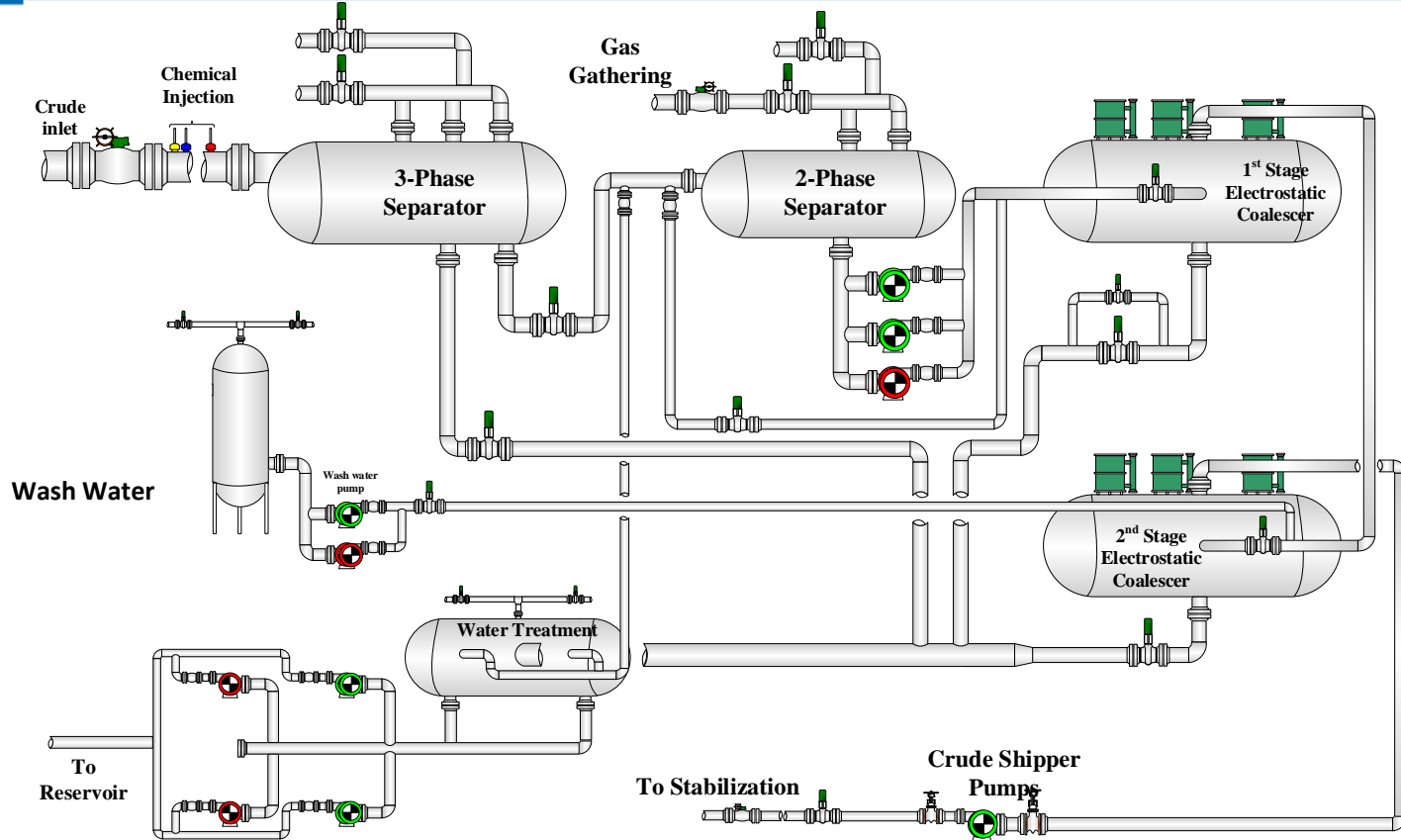


TECHNICAL ADVISOR



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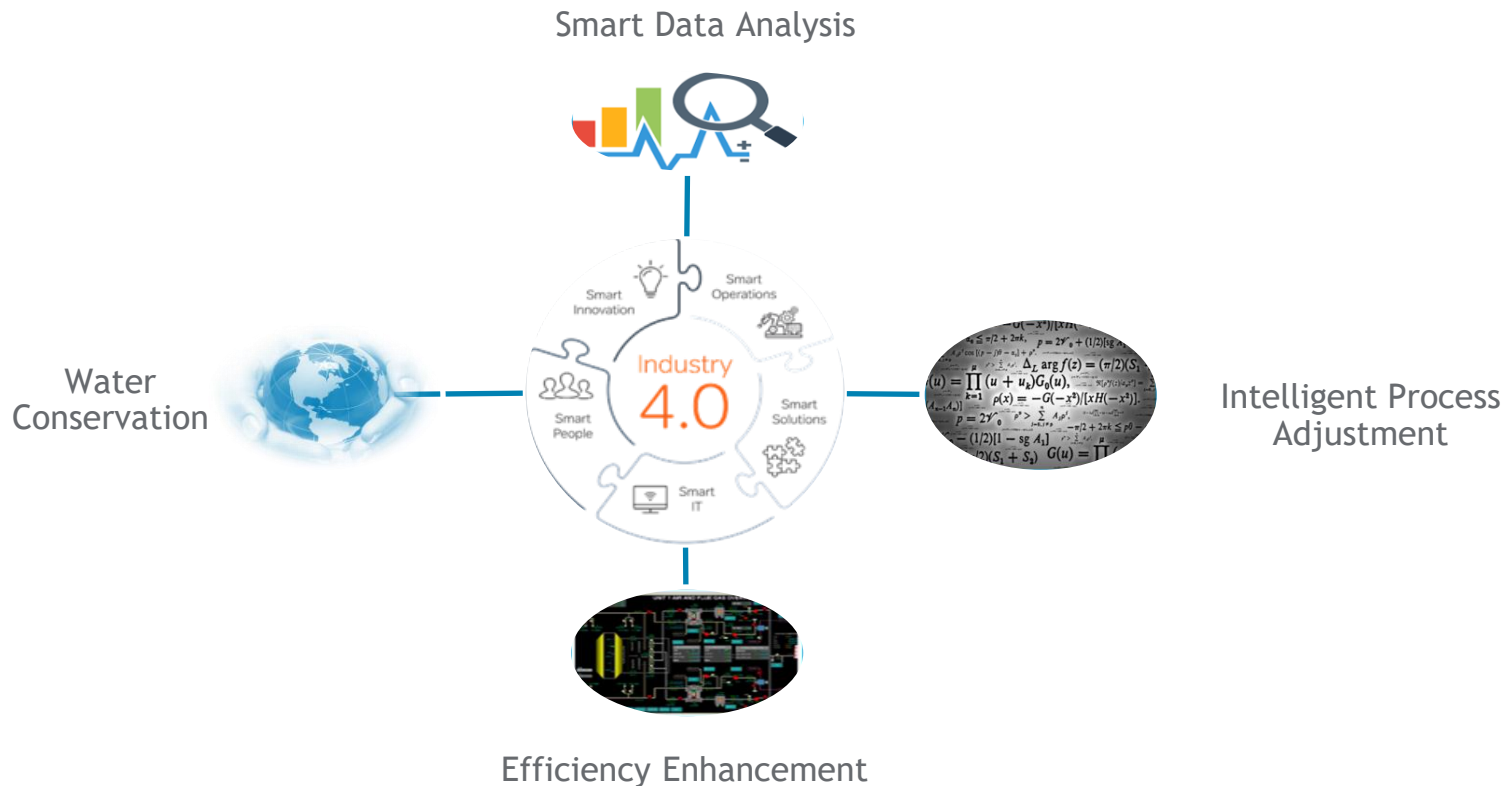
Typical GOSP Overview



Business Drivers



Business Drivers



Original Setup :



Production
Rate



Manual Calculation



Manual
Adjustment



Fixed Rate

Introducing Wash Water Ratio Control

Original Setup :



Production Rate



Manual Calculation



Automatic Adjustment

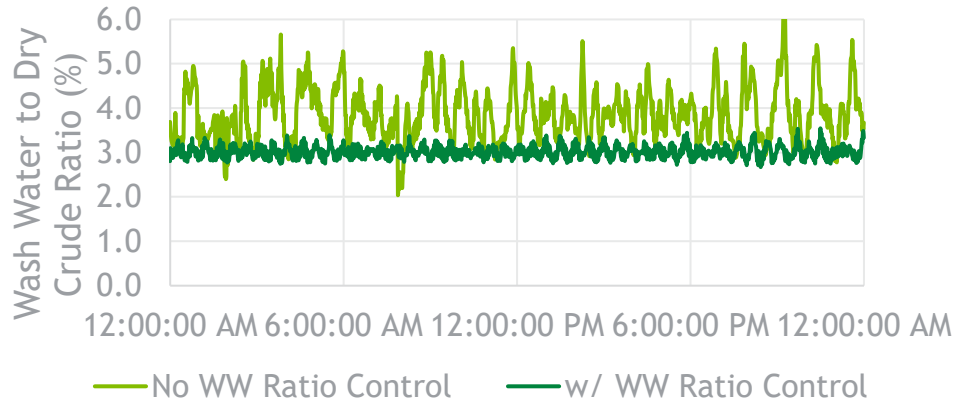


Fixed Rate



In-house Innovation

15% Wash Water Optimizations



High Efficiency Mixers

Conventional Mixing

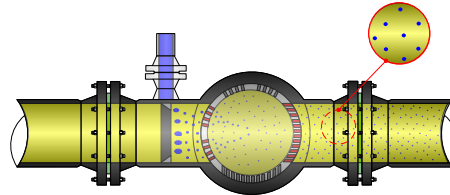
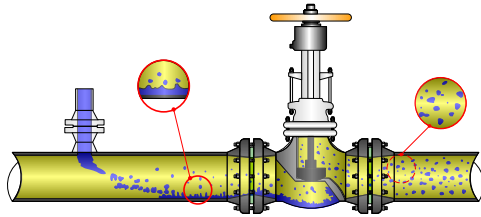


$\Delta P=15$ psi

Mixing Valve

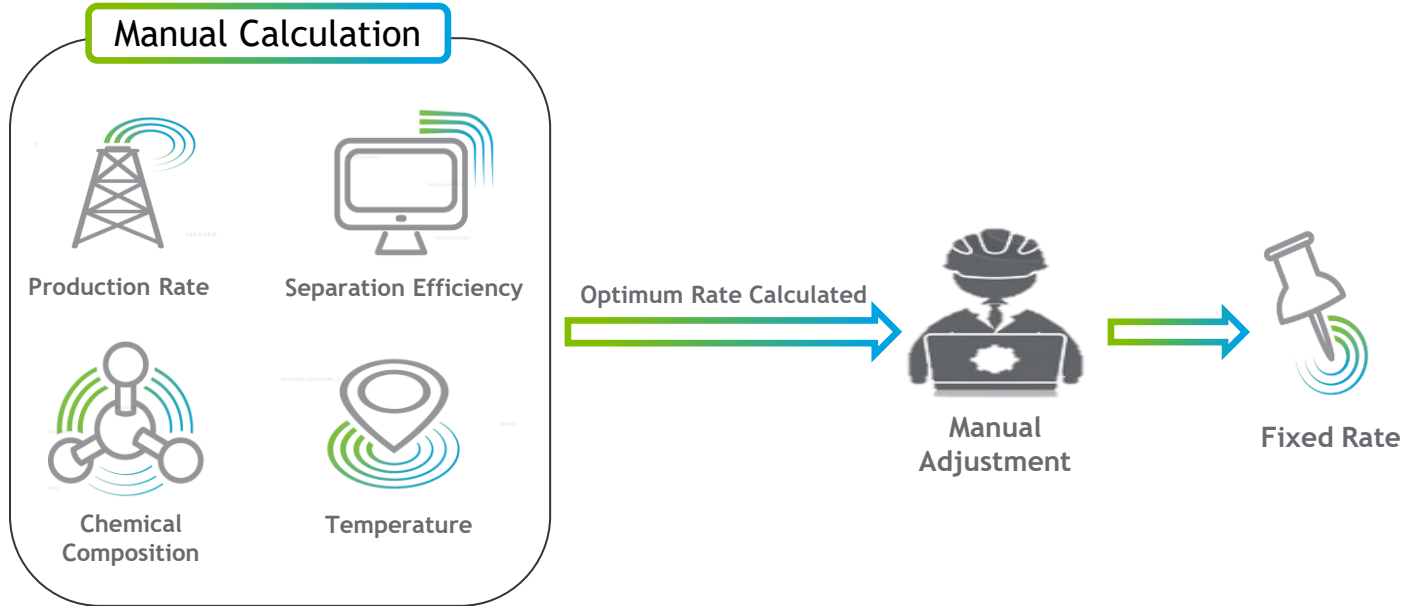


$\Delta P=7$ psi

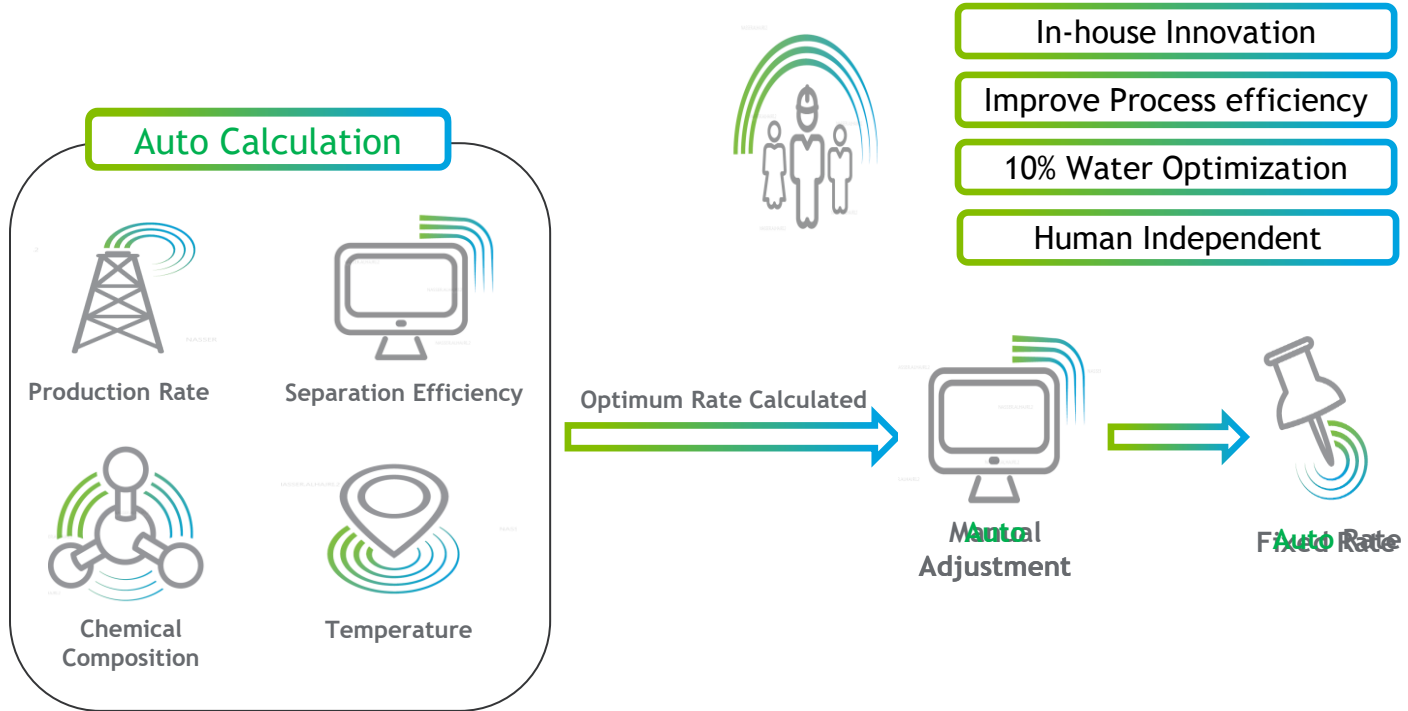


20% Wash Water Optimizations

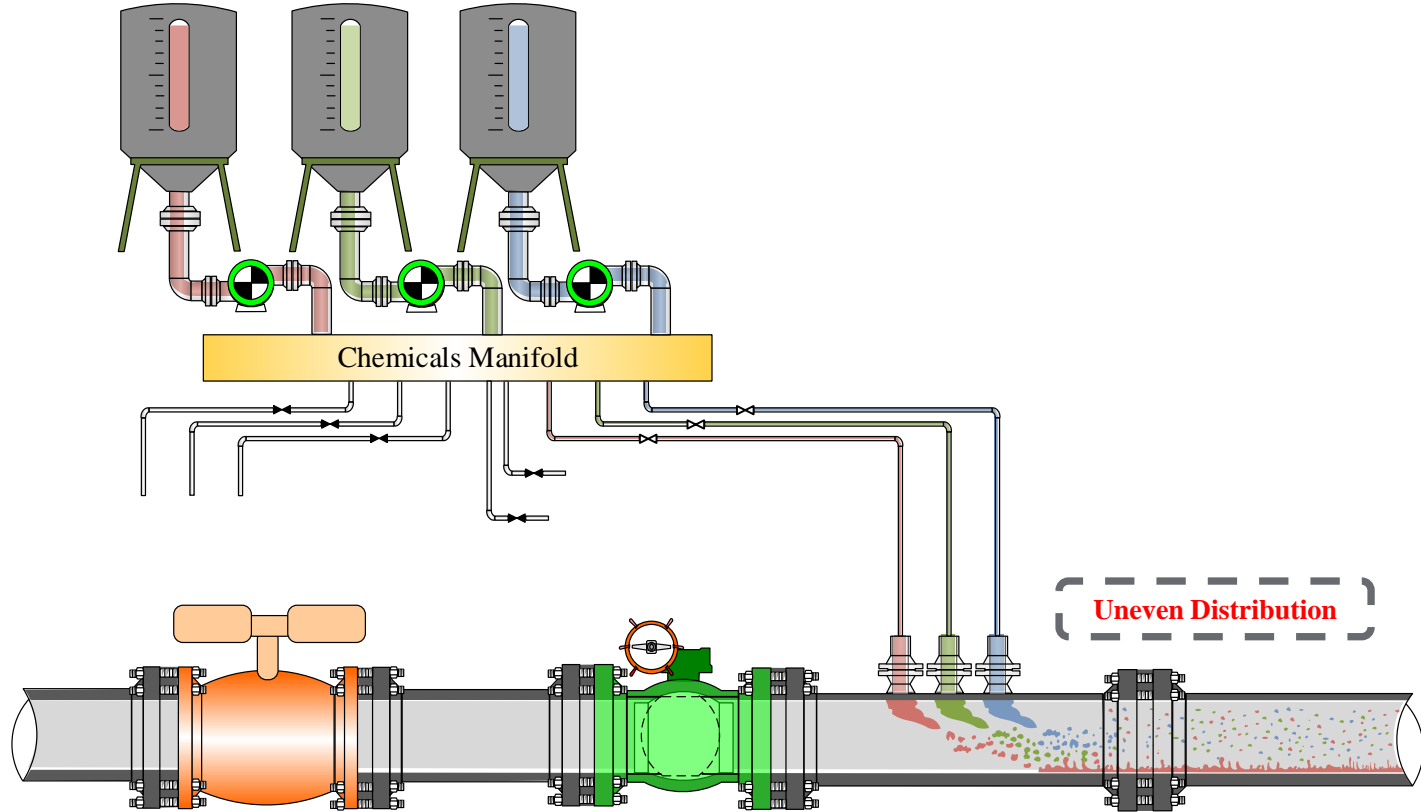
Original Setup :



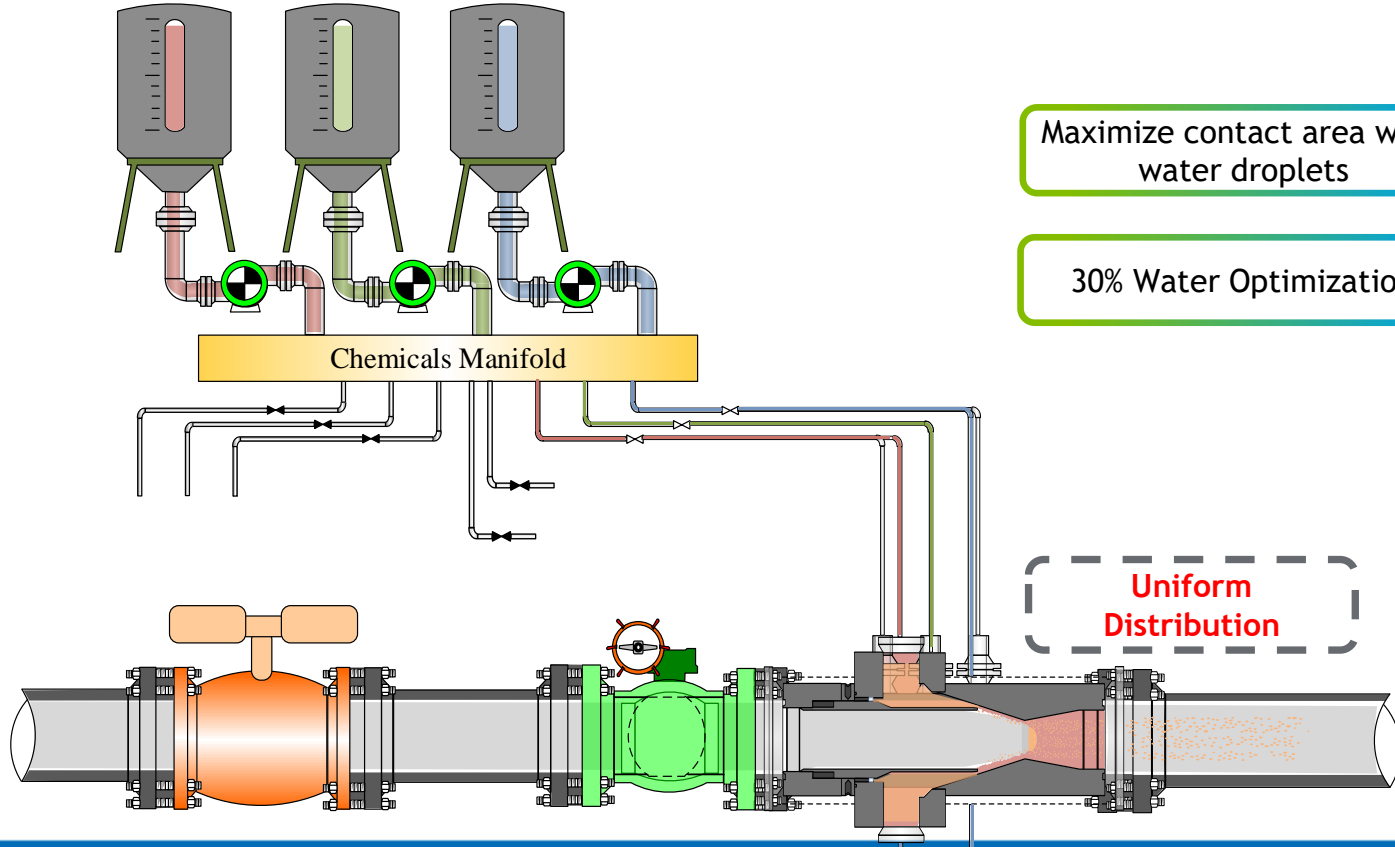
Introducing Smart Demulsifier Control



Chemical Injection



High Efficiency Mixer



Maximize contact area with water droplets

30% Water Optimization

Uniform Distribution

Under the Patronage of **HRH Prince Faisal bin Bandar bin Abdulaziz**
Governor of Riyadh Region

وزارة البيئة والمياه والزراعة
Ministry of Environment Water & Agriculture



رؤية
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SUSTAINABLE
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منتدى المياه السعودي
saudi water forum **SWF 2022**
Water Sustainability.. A Responsibility for All

THANK YOU



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الجمعية العامة لخدمة المياه بالبحرين
Bahrain Water Commission (BWC)



شركة المياه الوطنية
National Water Company



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