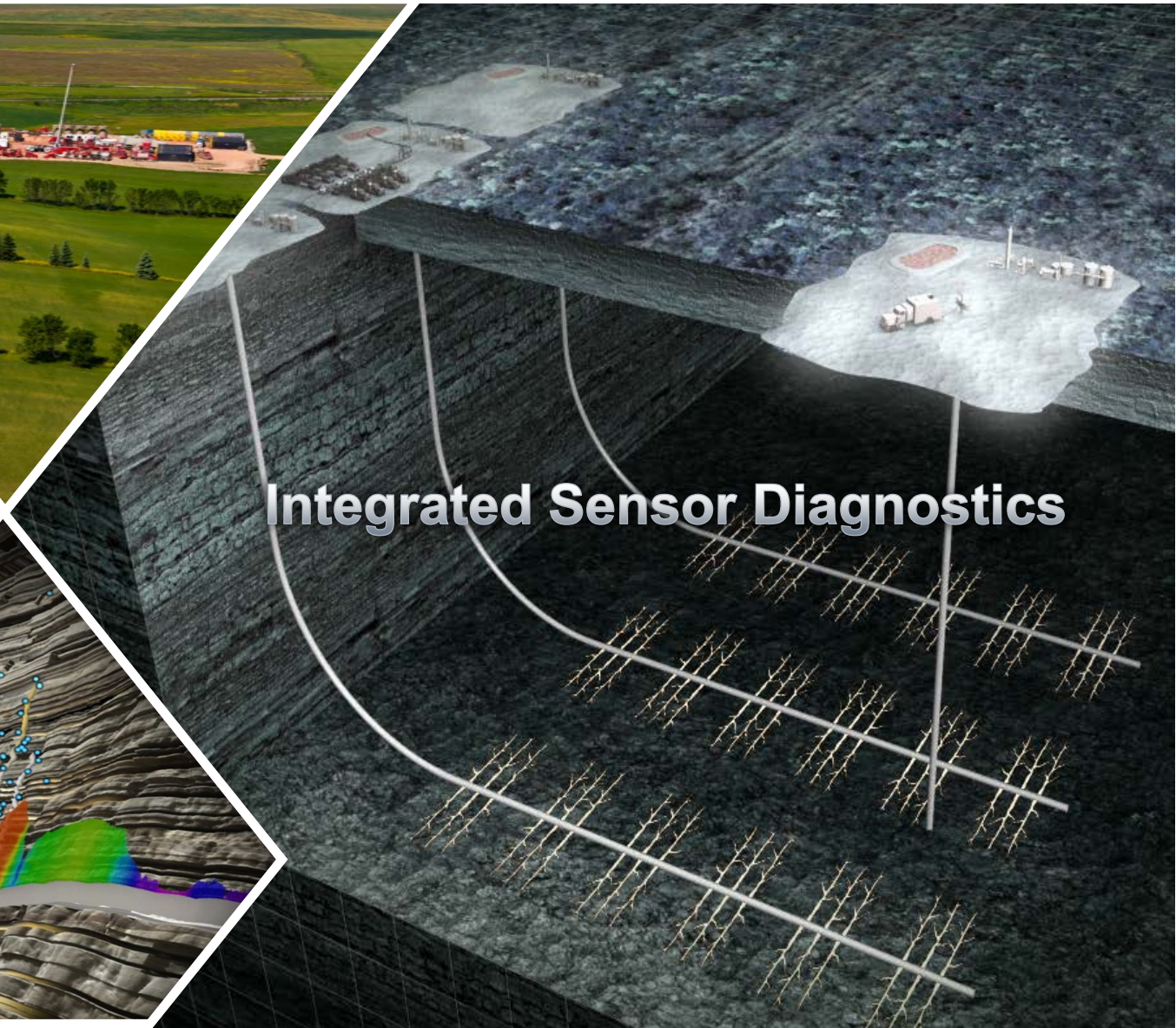
8TO. CONGRESO IAPG
Producción y Desarrollo de Reservas
HACIA UN DESARROLLO DE RECURSOS SUSTENTABLE

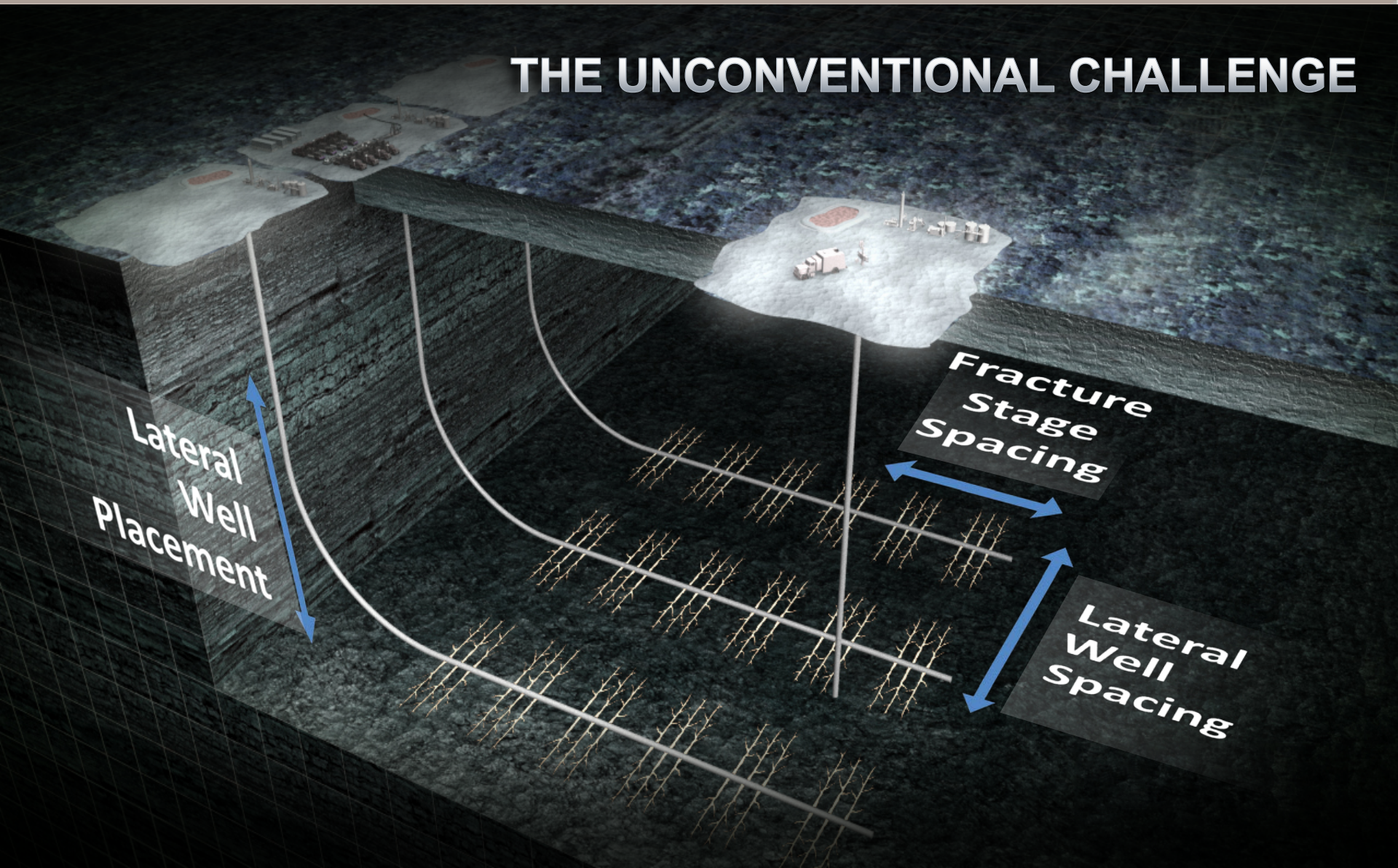
IAPG INSTITUTO ARGENTINO DEL PETROLEO Y DEL GAS

24 • 27 Octubre 2016
Llao Llao Hotel&Resort
Bariloche, Argentina



Integrated Sensor Diagnostics

THE UNCONVENTIONAL CHALLENGE



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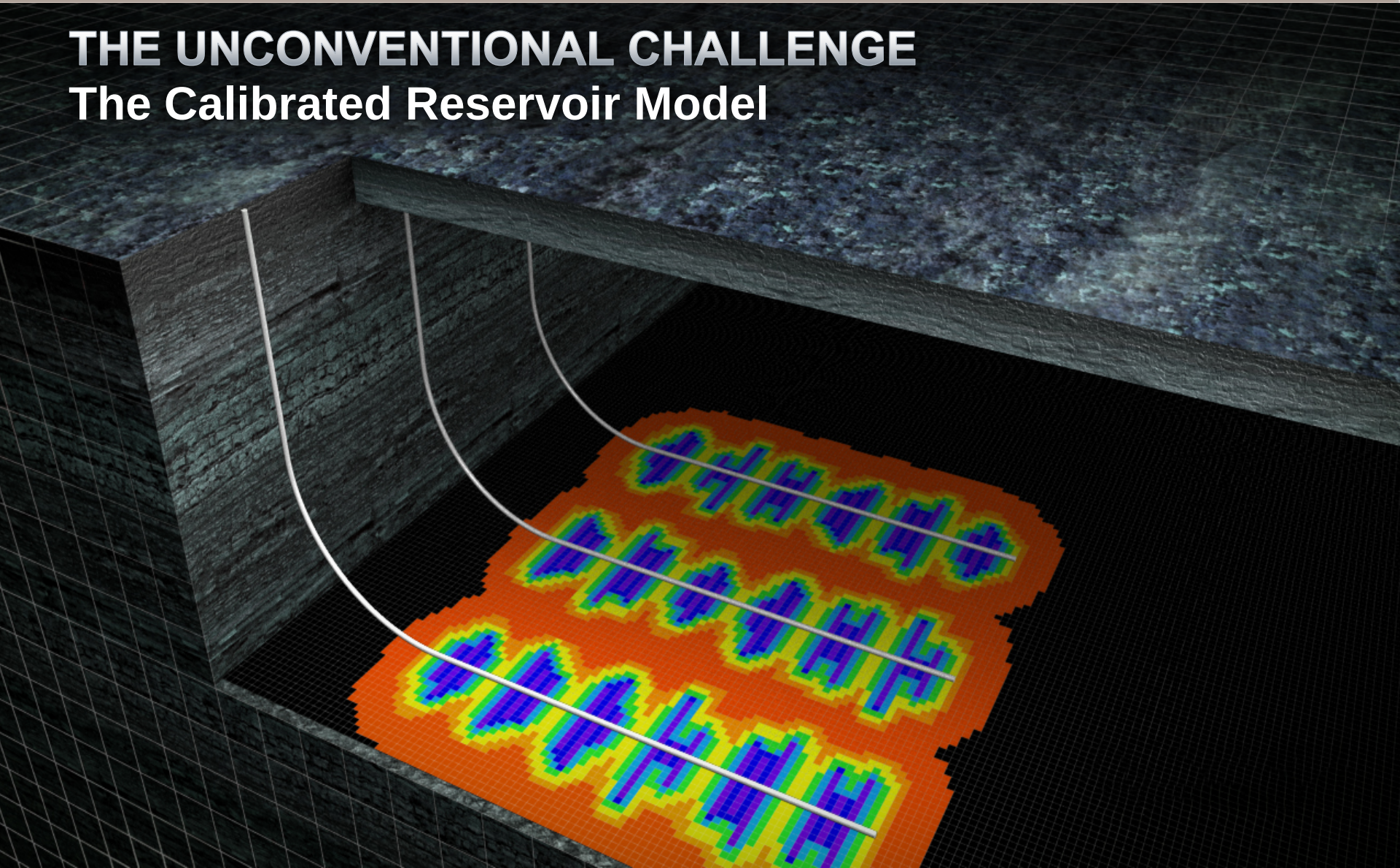
THE UNCONVENTIONAL CHALLENGE

The Calibrated Reservoir Model



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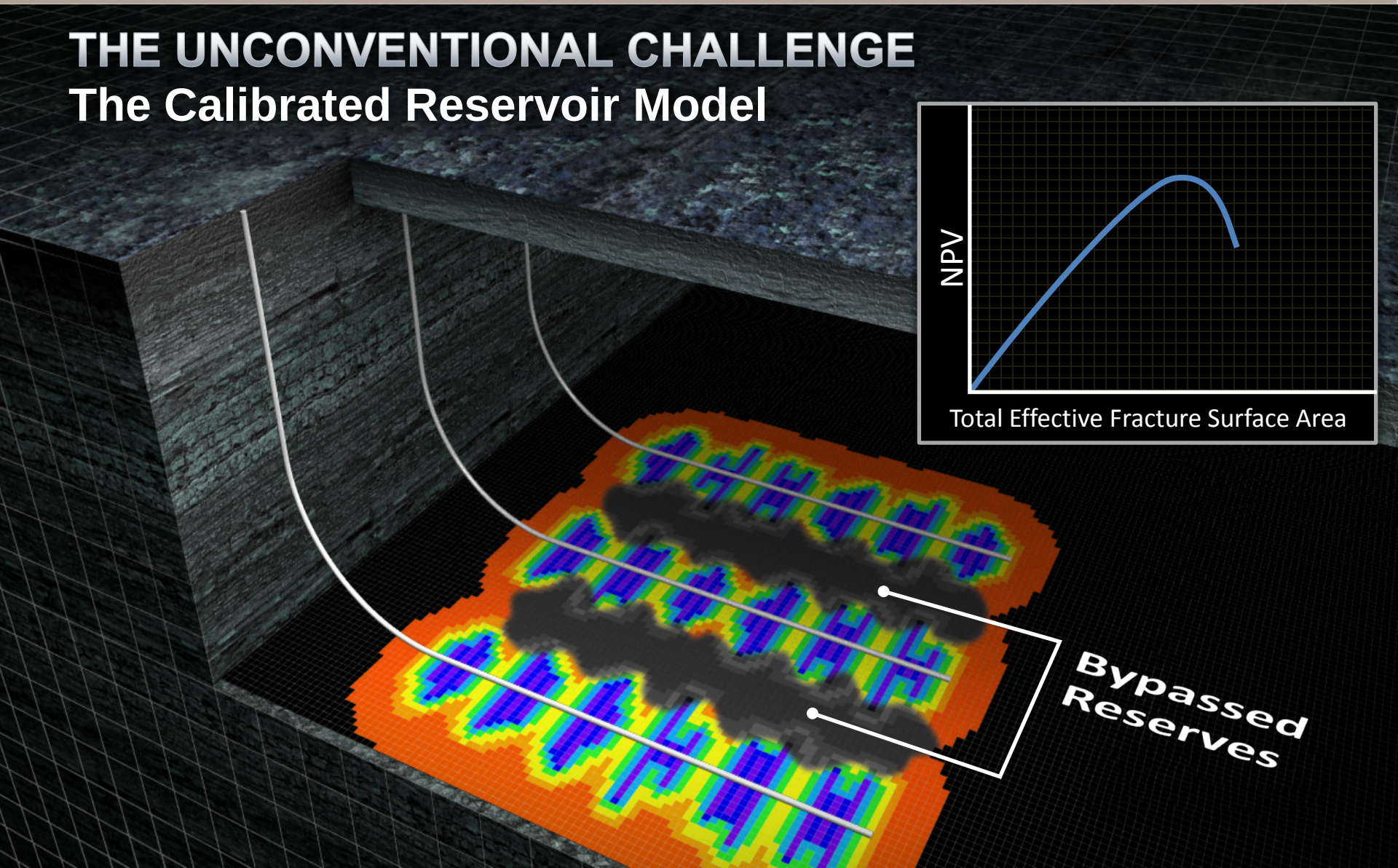
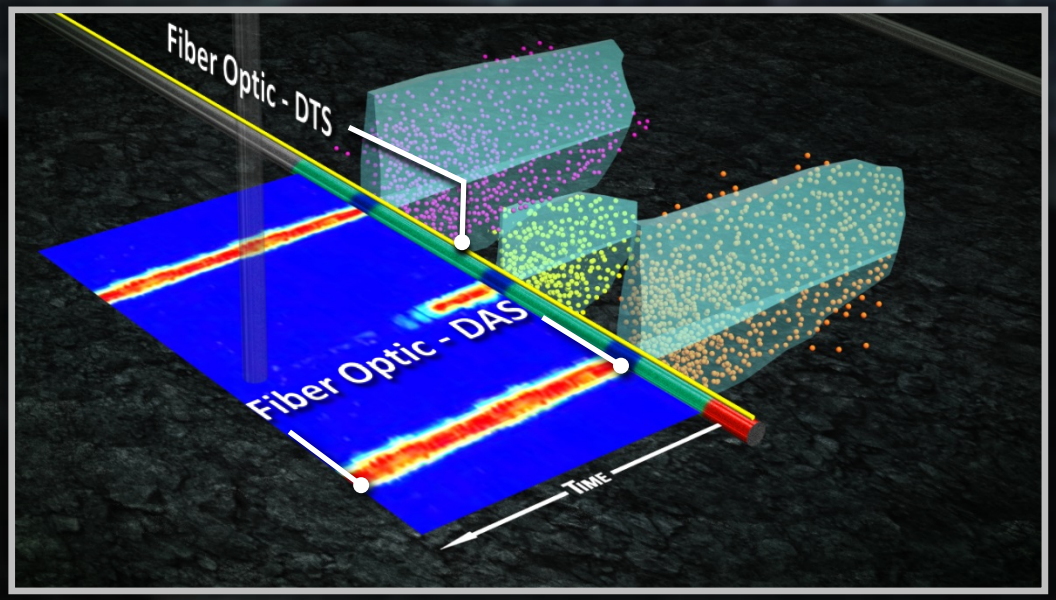


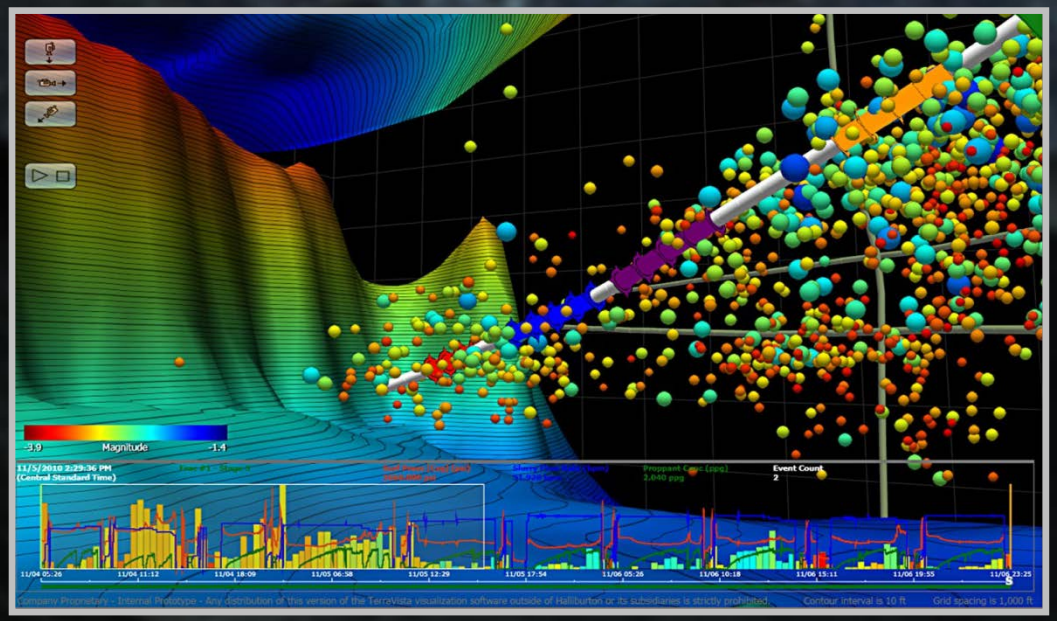
SOLVING THE CHALLENGE
Near Wellbore Results



NEAR WELLBORE FLUID DISTRIBUTION
CLUSTER EFFICIENCY
COMPLETION EFFECTIVENESS

- **Fracture Initiation**
- Fracture Mapping
- Fracture Model Calibration
- Production Monitoring
- Reservoir Model Calibration

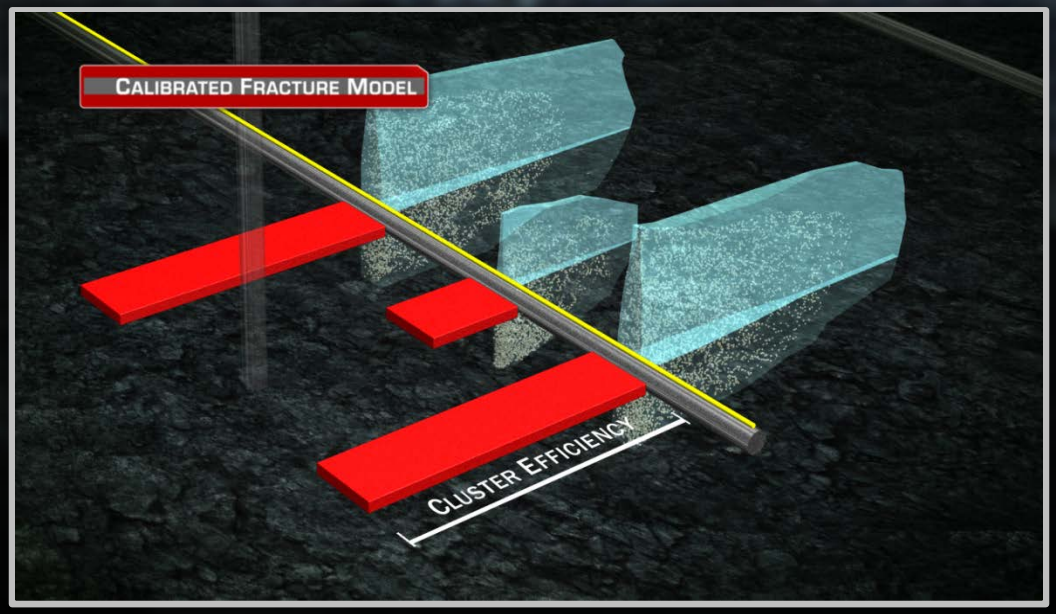
SOLVING THE CHALLENGE
Far Field Results



HYDRAULIC FRACTURE GEOMETRY
GEOHAZARD IDENTIFICATION

- Fracture Initiation
- **Fracture Mapping**
- Fracture Model Calibration
- Production Monitoring
- Reservoir Model Calibration

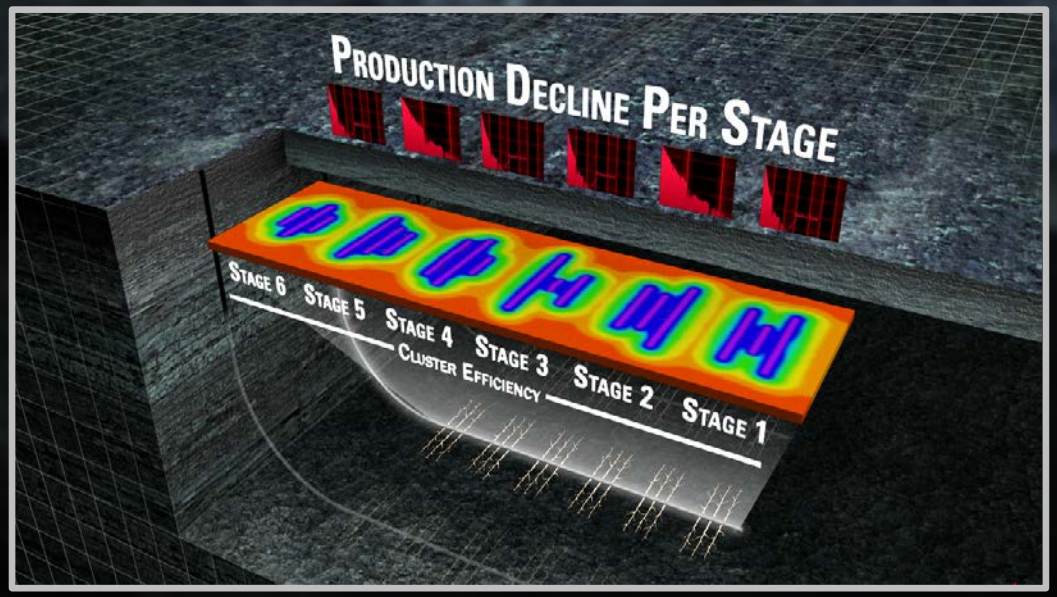
SOLVING THE CHALLENGE
Calibrated Fracture Modeling



PROPPANT FRACTURE GEOMETRY
RESERVOIR MODEL INPUTS

- Fracture Initiation
- Fracture Mapping
- **Fracture Model Calibration**
- Production Monitoring
- Reservoir Model Calibration

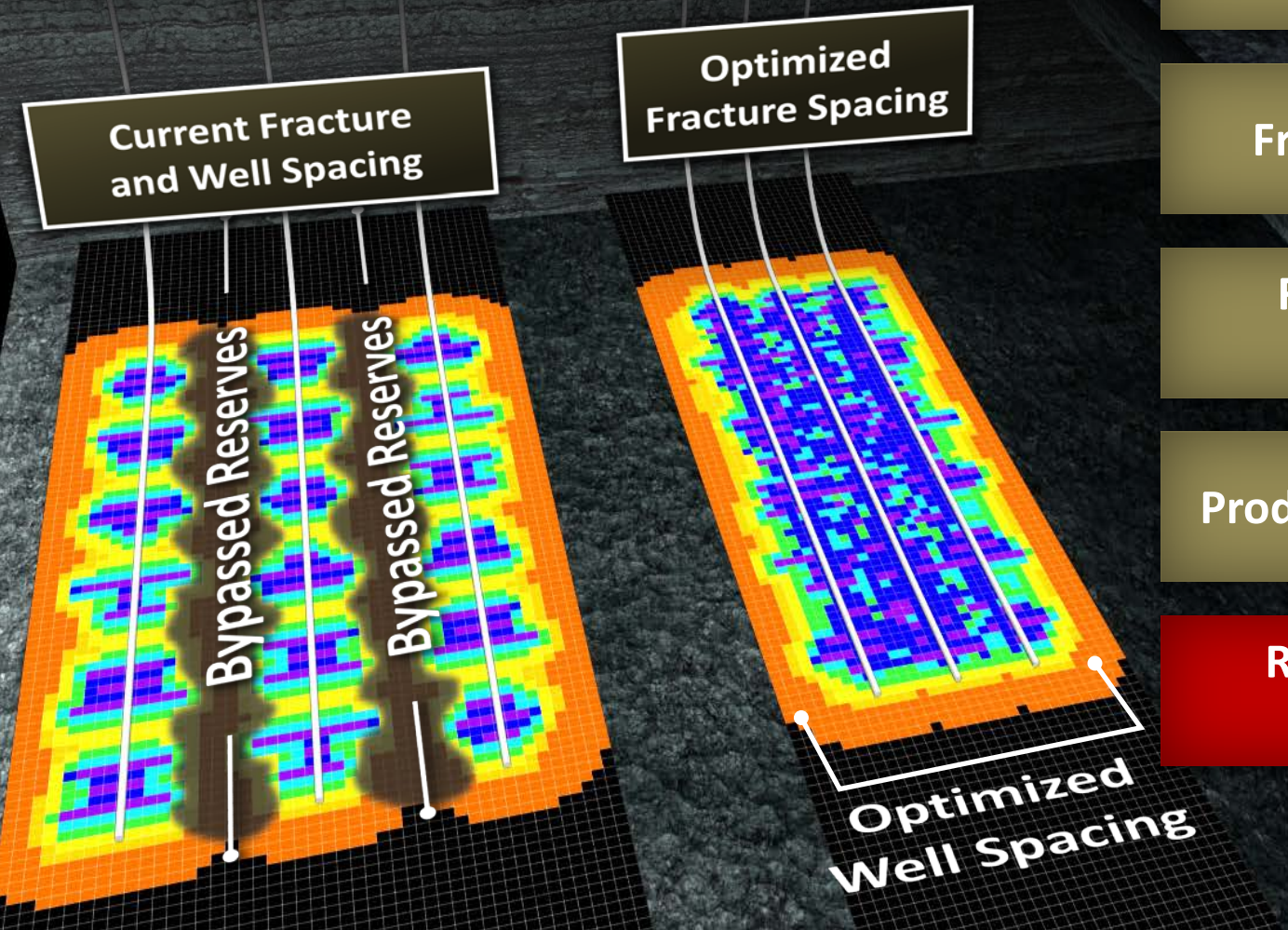
SOLVING THE CHALLENGE
Production Monitoring



FIBER OPTIC PRODUCTION TRANSIENT ANALYSIS BY STAGE

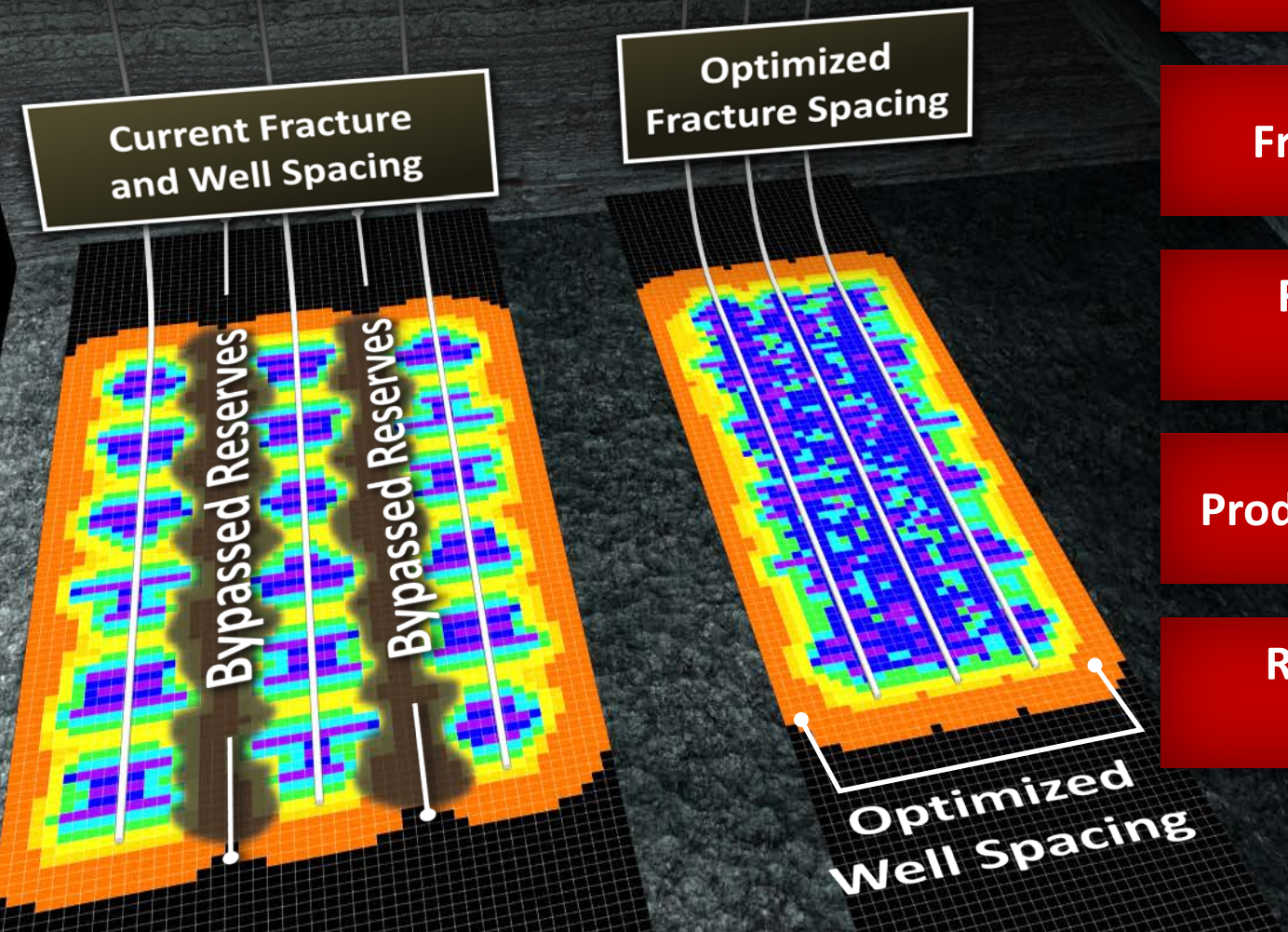
- Fracture Initiation
- Fracture Mapping
- Fracture Model Calibration
- **Production Monitoring**
- Reservoir Model Calibration

SOLVING THE CHALLENGE
Calibrated Reservoir Model



- Fracture Initiation
- Fracture Mapping
- Fracture Model Calibration
- Production Monitoring
- **Reservoir Model Calibration**

SOLVING THE CHALLENGE
Integrated Sensor Diagnostics



- Fracture Initiation
- Fracture Mapping
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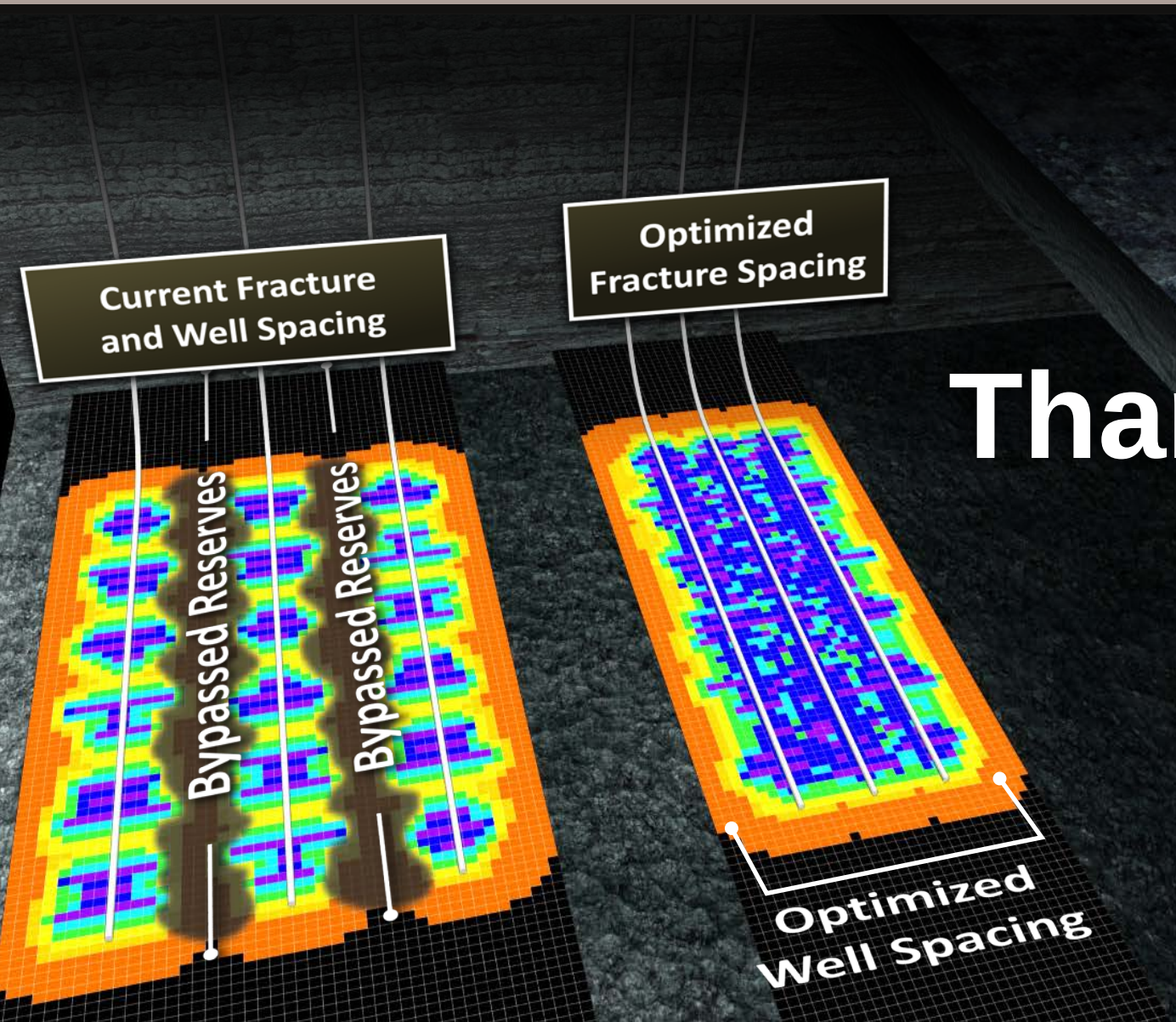

Thank You