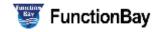


EDEM 과 RecurDyn의 연동 해석, 이렇게 적용해보자!



FunctionBay, Inc. Solution Group Assitant Manager



Index

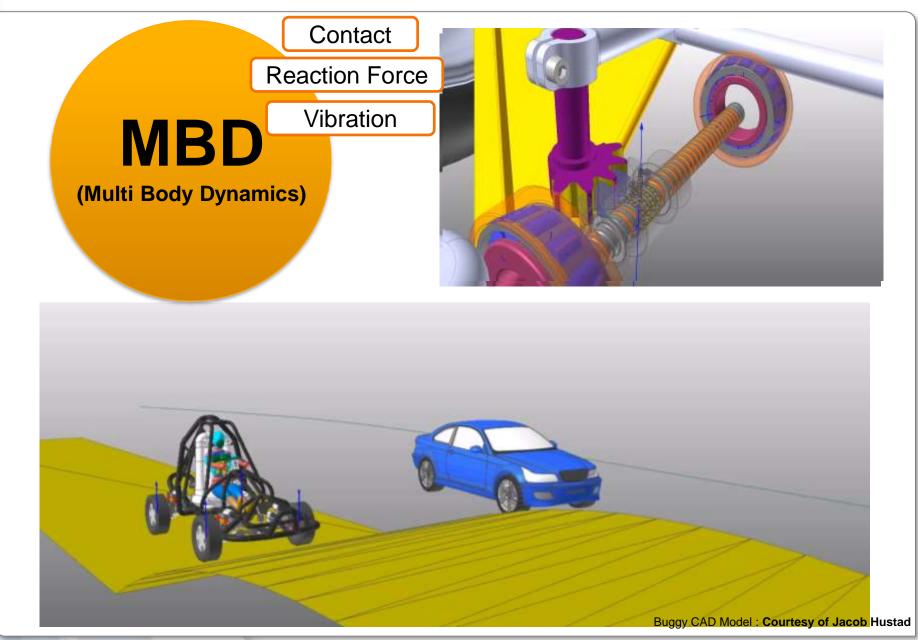
- 1. RecurDyn Product Introduction
- 2. EDEM + RecurDyn Co-simulation application
- 3. Interface setting
- 4. Conclusion

1. RecurDyn Product Introduction

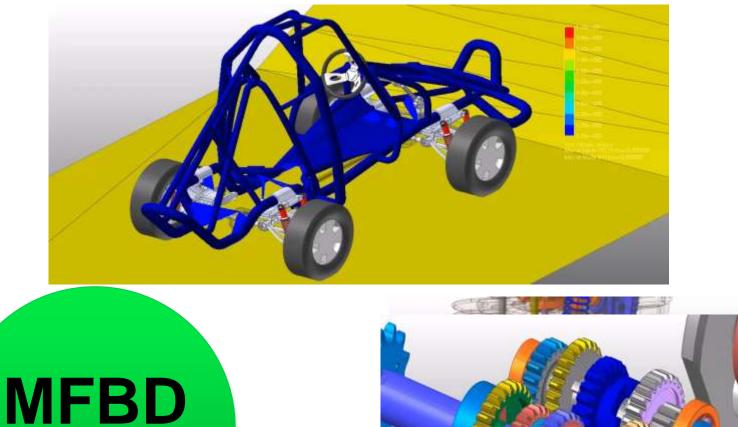
RECURDYN

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What is "RecurDyn" ?

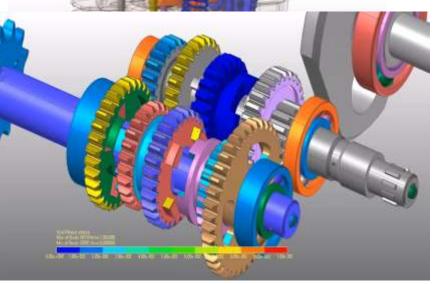


What is "RecurDyn" ?



(Multi Flexible Body Dynamics)

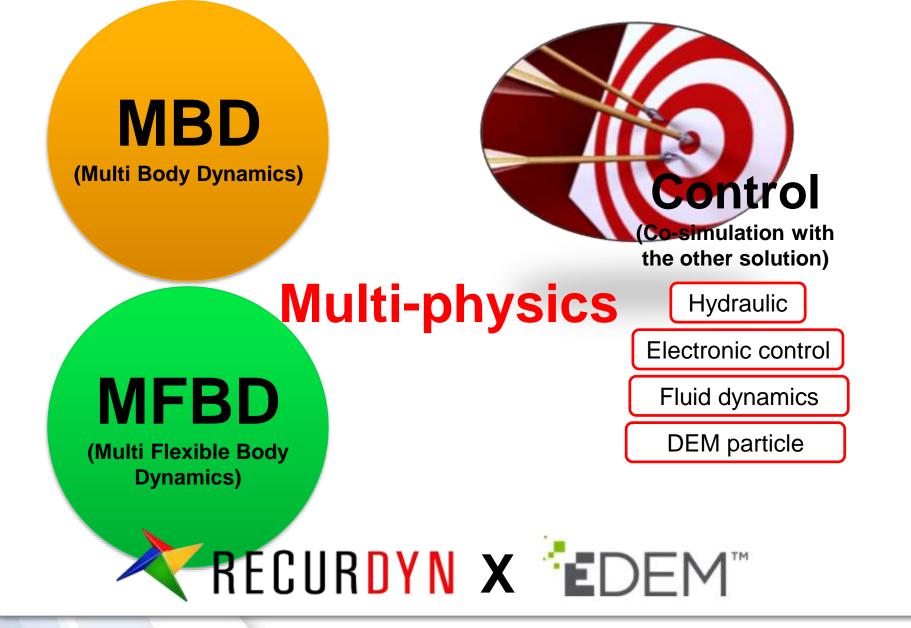
Fatigue Flexiblility Durability



RECURDYN

What is "RecurDyn" ?

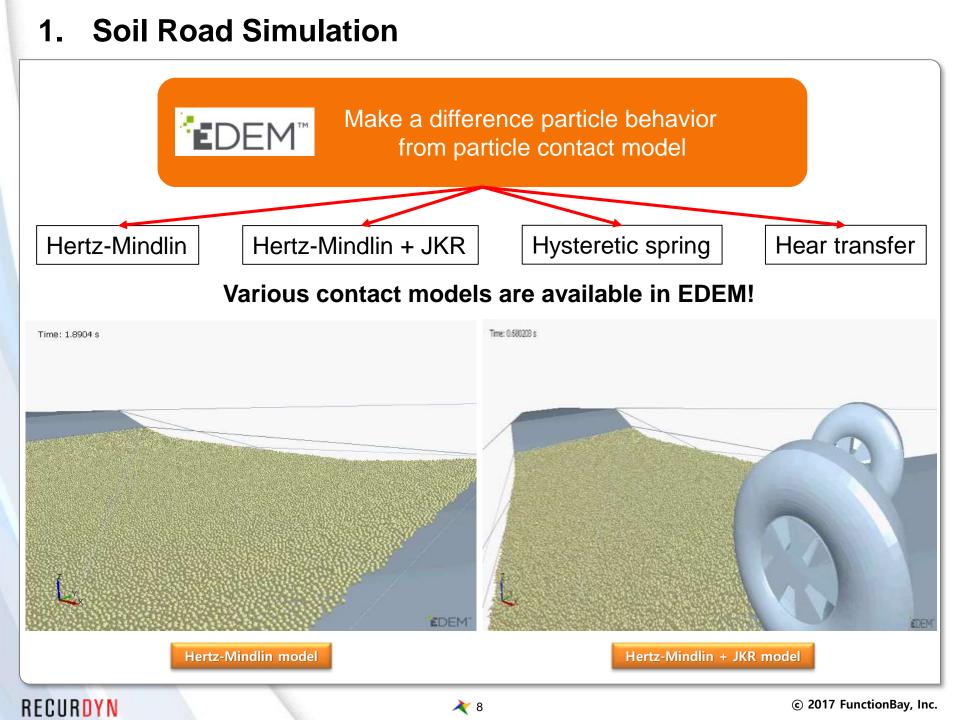
RECURDYN



2. EDEM + RecurDyn Co-simulation application

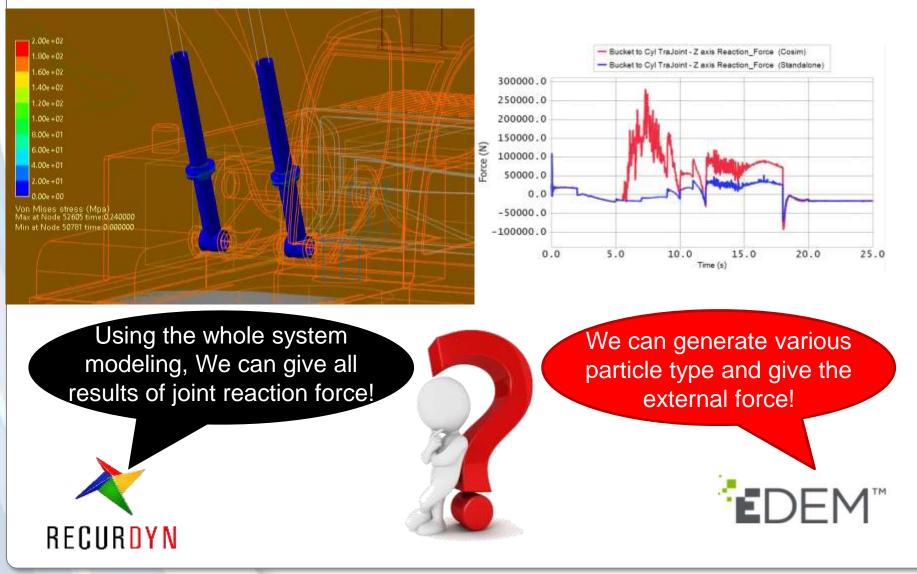
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RECURDYN



2. Heavy Equipment

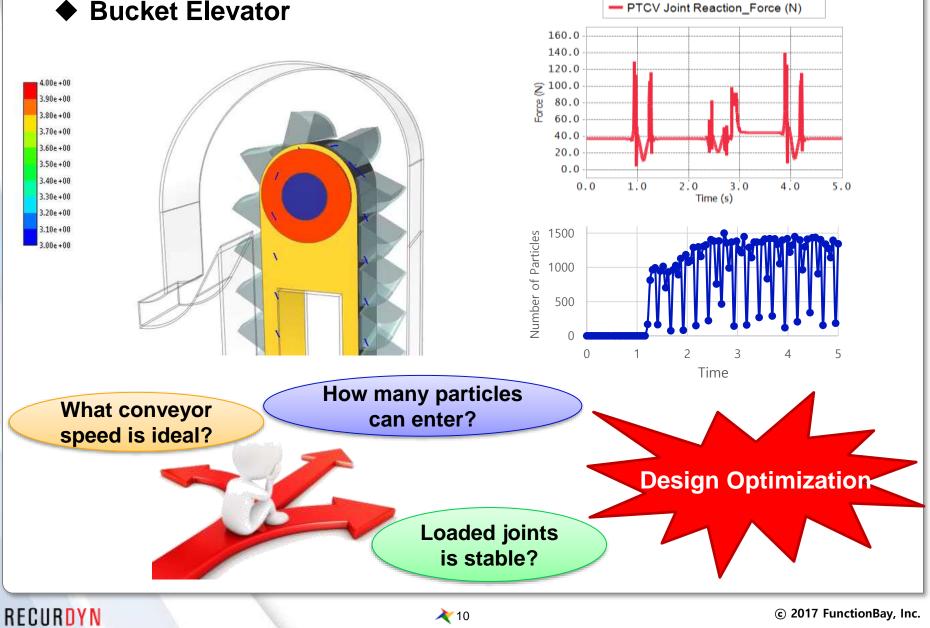
Excavator



≷ 9

3. **Agricultural I**

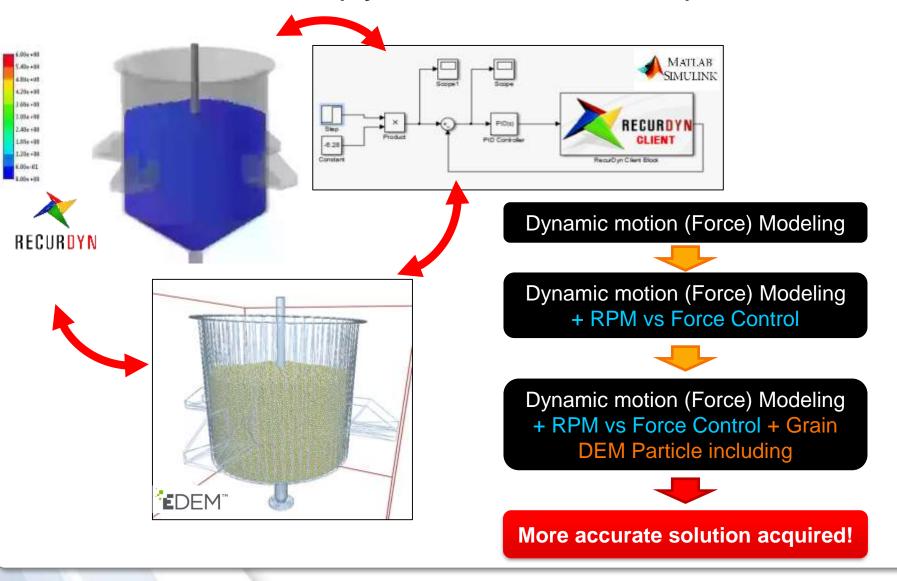
Bucket Elevator



3. Agricultural II

RECURDYN

Multi Co-simulation (Dynamics + DEM + Control)



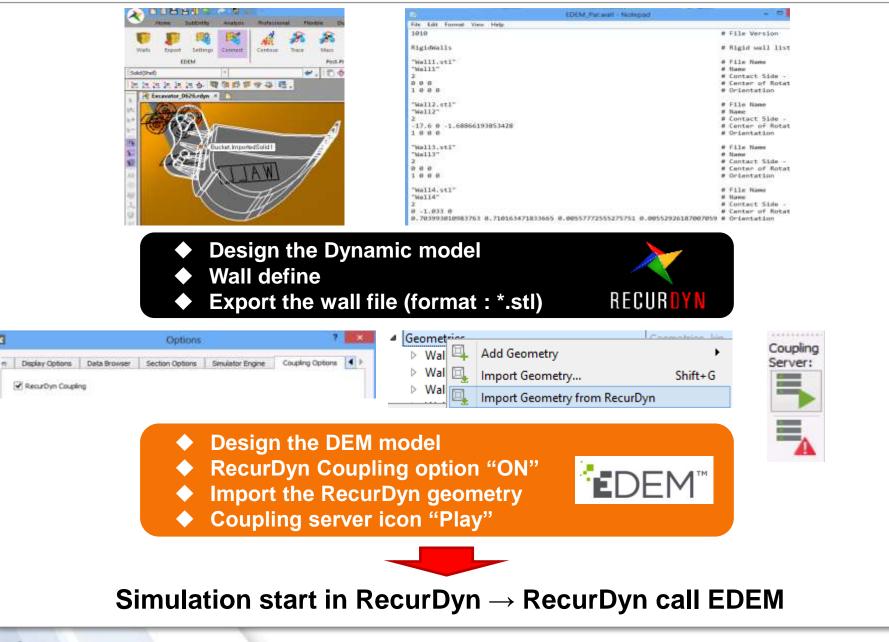
11 🔪

3. Interface setting

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Interface Setting



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13

Conclusion

Advantage of Co - simulation (EDEM + RecurDyn)

- Perspective of EDEM
 - ✓ Enable to represent more complex dynamic behavior
 - ✓ Whole system analysis is possible using RecurDyn solver
 - ✓ Stress analysis of flexible body component can predict
- Perspective of RecurDyn
 - ✓ External particle force can be realized using powerful solution of EDEM
 - ✓ Specific particle geometry and more accurate material also can applied
 - Various particle contact model can available (ex: Cohesion, Bonding, Heat transfer)

The solutions are enhanced by feedback from each result!



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1 BECURDYN

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