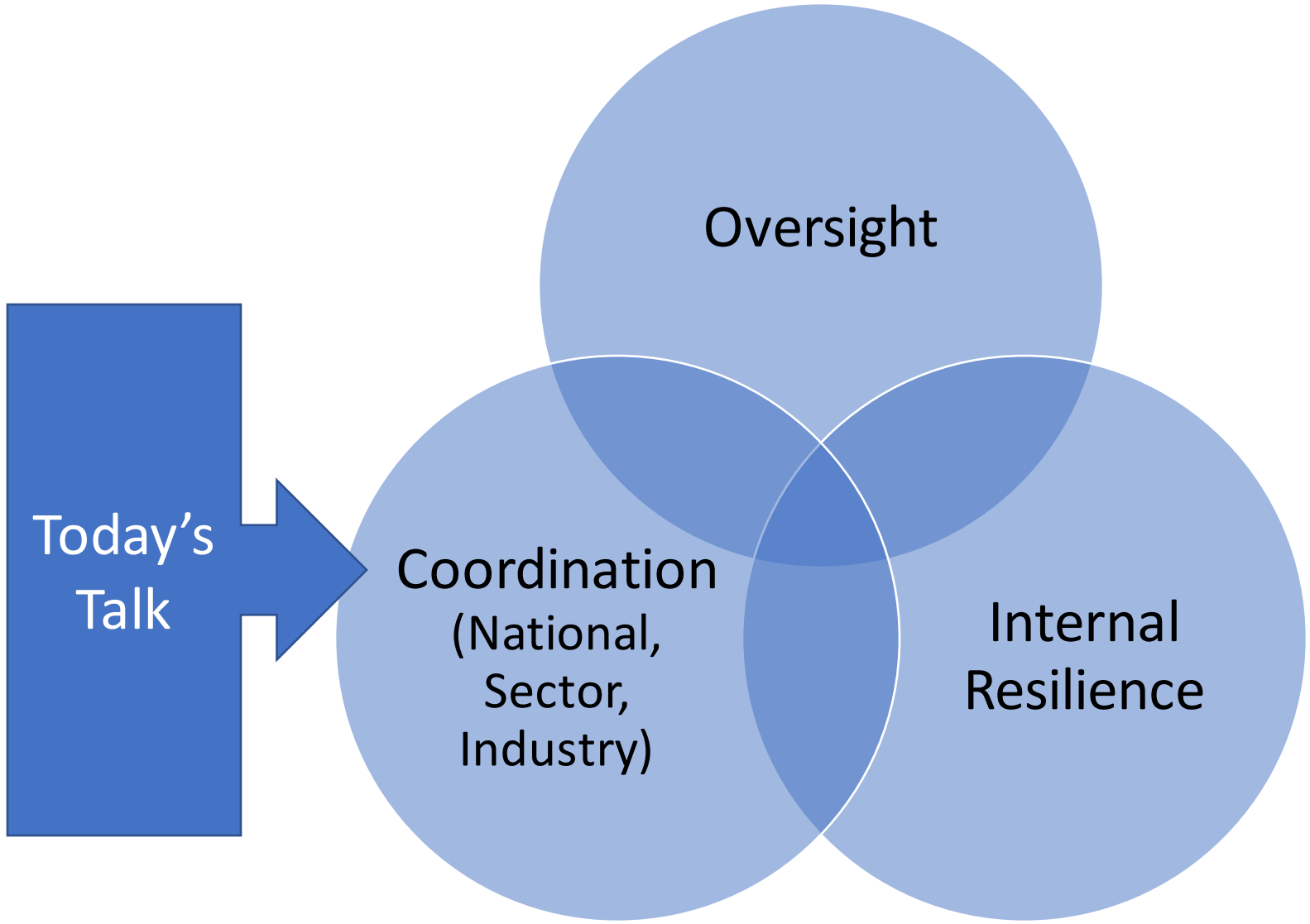
A Cyber Resilience Perspective

FIGI Symposium Cyber
June 15th, 2021
Gerhard Cronje

South African Reserve Bank
Prudential Authority

SARB 100 YEARS 1921-2021
A purposeful journey

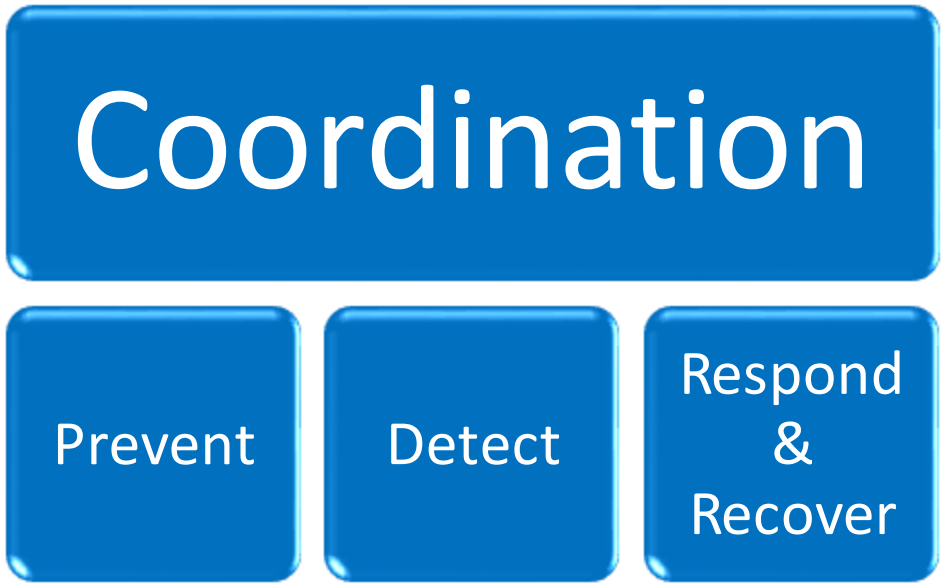
Scope/Focus



None of the comments made represent the views of my employer but is purely my own…

Introducing CPDR²

- Nothing new – Relates well to NIST/IOSCO – but simplified (maybe over simplified)



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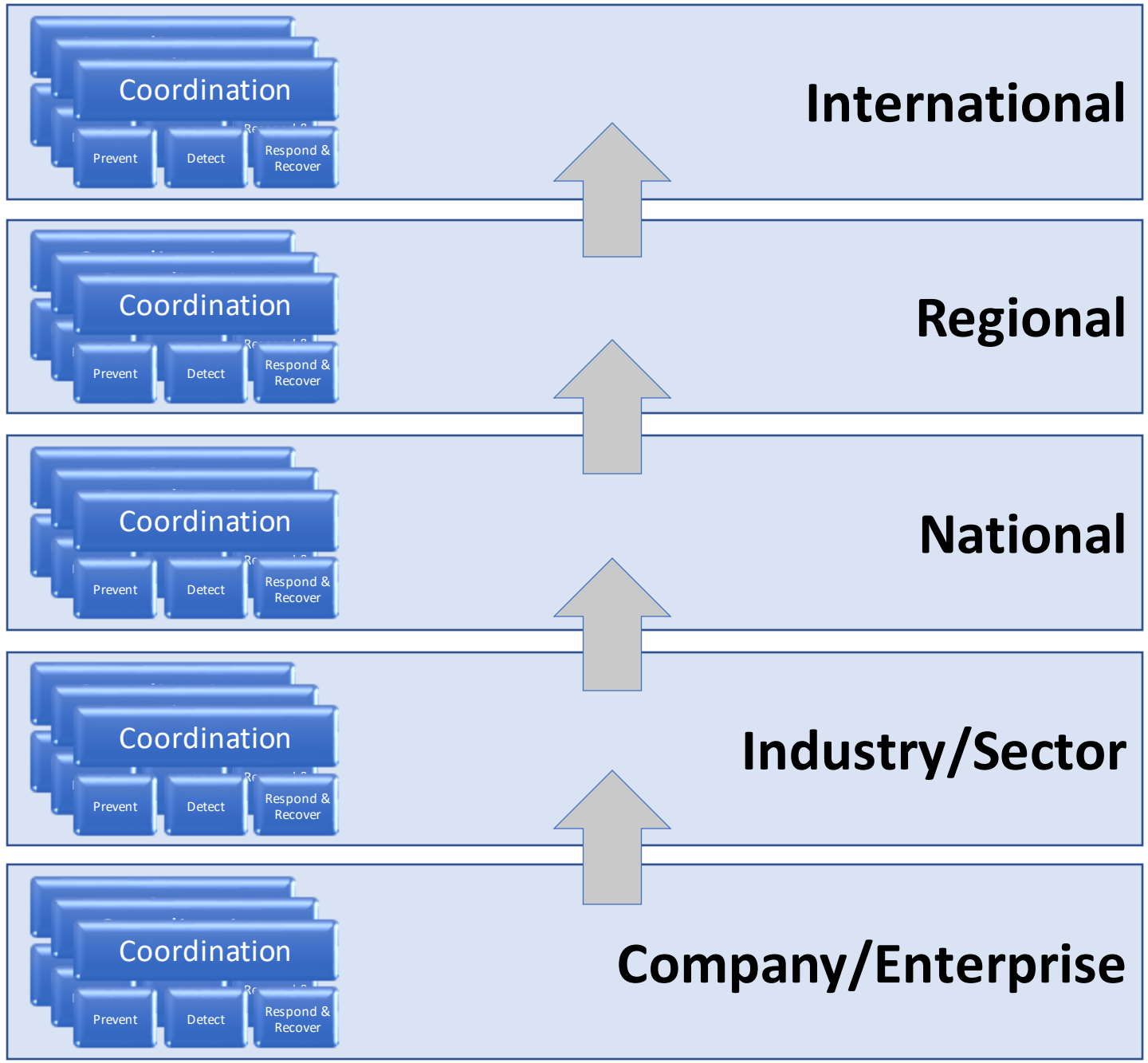
Levels



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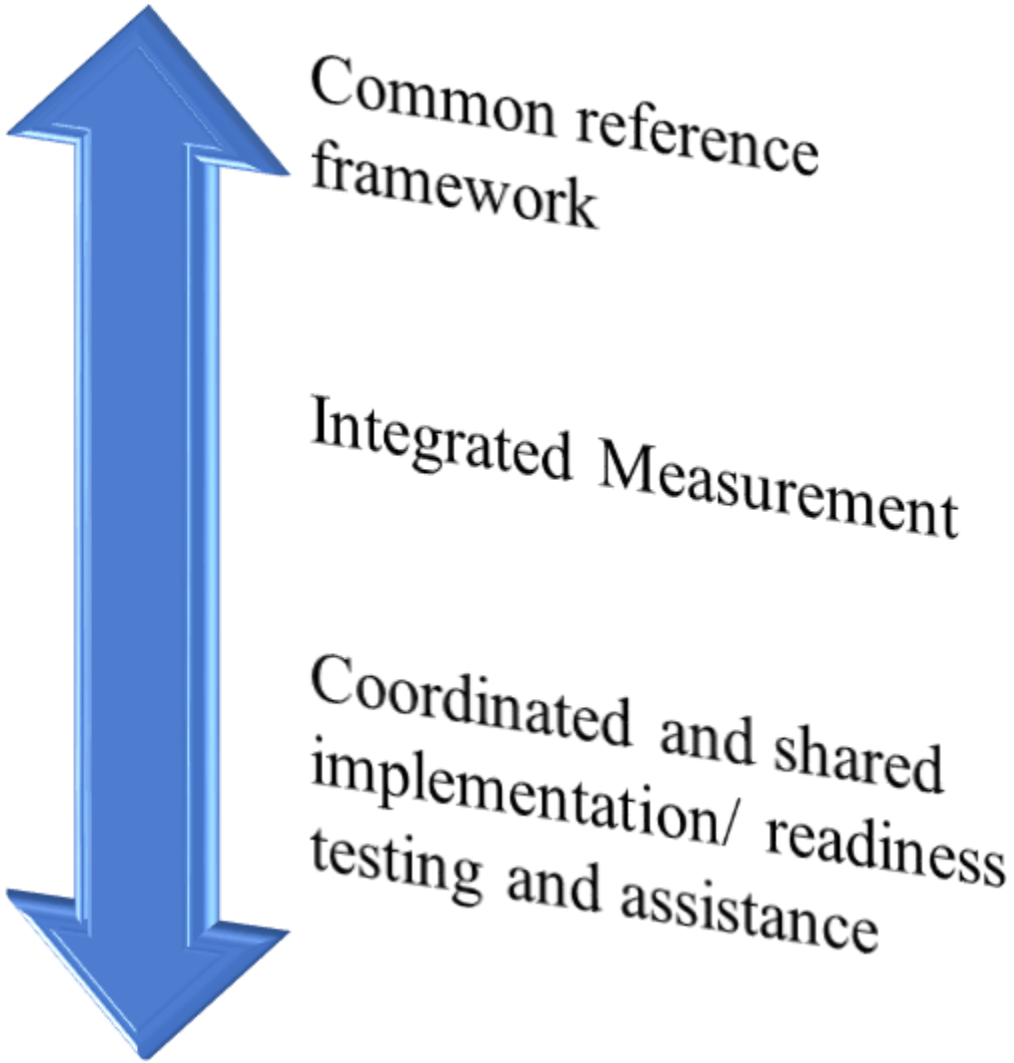
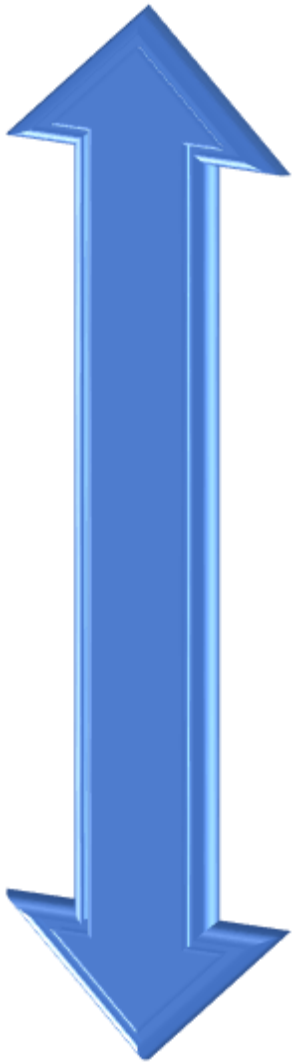
Dimensions

5

Depth (Examples)



Depth (Examples)



High level post fact incident sharing/ groups and lists

Selected information sharing at key points

Real time early detection technical detail and overall information sharing

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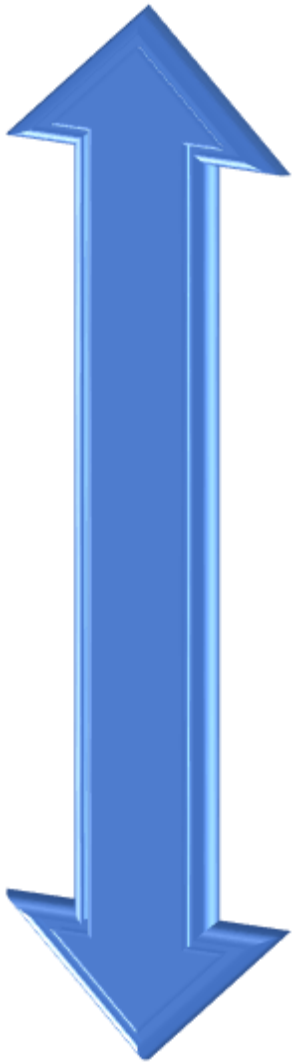
Depth (Examples)



Sharing groups and lists

Reporting defined in terms of content, timing and audience

Integrated coordination and resource sharing

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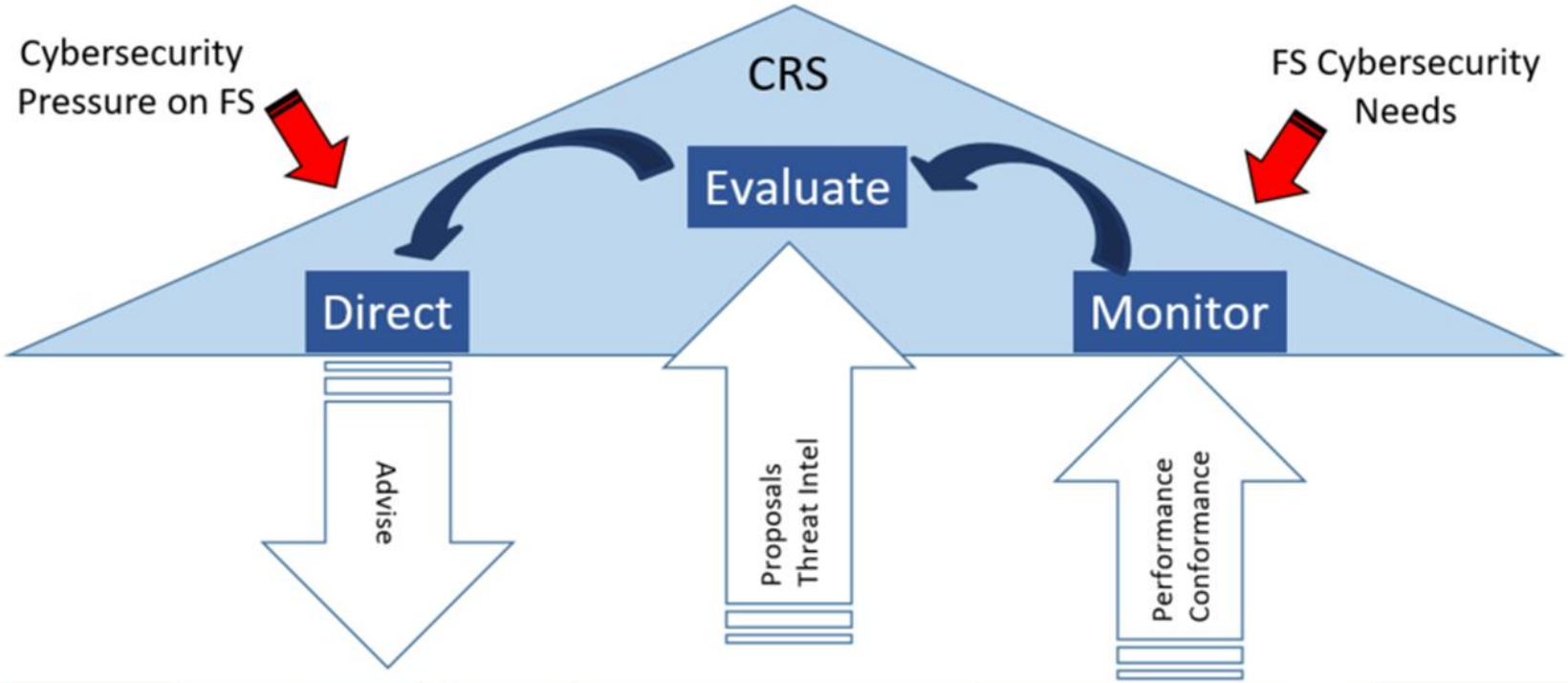
An Approach



	Prevent (P)	Detect (D)	Respond & Recover (R^2)	
Functions	**Core** • Regulation • Stability Oversight **Value add** • Risk Assessment • Industry Readiness Testing (Red/Blue, CBEST, TIBER etc.) • Certified – include best practice assessments	**Core** • Threat Intelligence • Incident sharing **Value add** • Analysis (consolidation and collaboration) • Threat intel dissemination • Integrated FS awareness	**Core** • Recover • Recourse coordination • Direct • Industry CSIRT / National level **Value add** • Simulation Testing (Red/Blue) • Emergency Support and Skills	
Role players	Oversight Bodies (PA, FSCA, FinStab, SARB, Sector Cyber Steering committees etc)	Intelligence (Agencies, sector intel groupings etc.)	Response structures (CSIRTs, FSCF, Cyber Hub etc.) FinStab, NPS	

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Challenges (Other than overall coordination)

Prevent

- Practical ongoing status measurement
- Coordinated/shared testing

Detect

- Intel sharing/trust
- Real time
- Many parties

Respond and Recover

- Creative representative simulation
- Fraud/national inclusion

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THANK YOU

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