eClinicalWorks Interoperability

Interface Types

- Clinical Interfaces – Lab and Radiology
- HIE / Direct CCDA Integrations
- Carequality / CommonWell
- SMART on FHIR
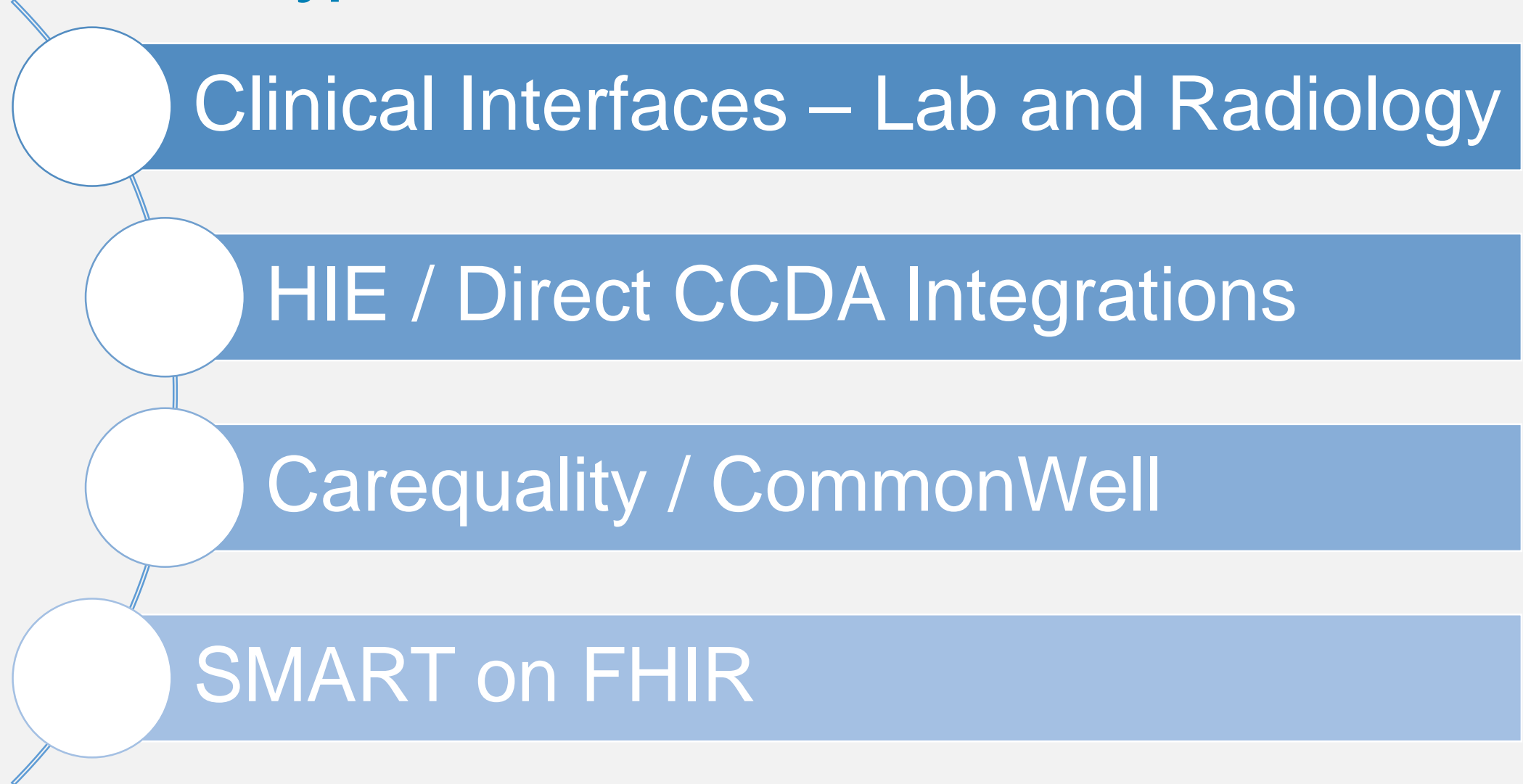
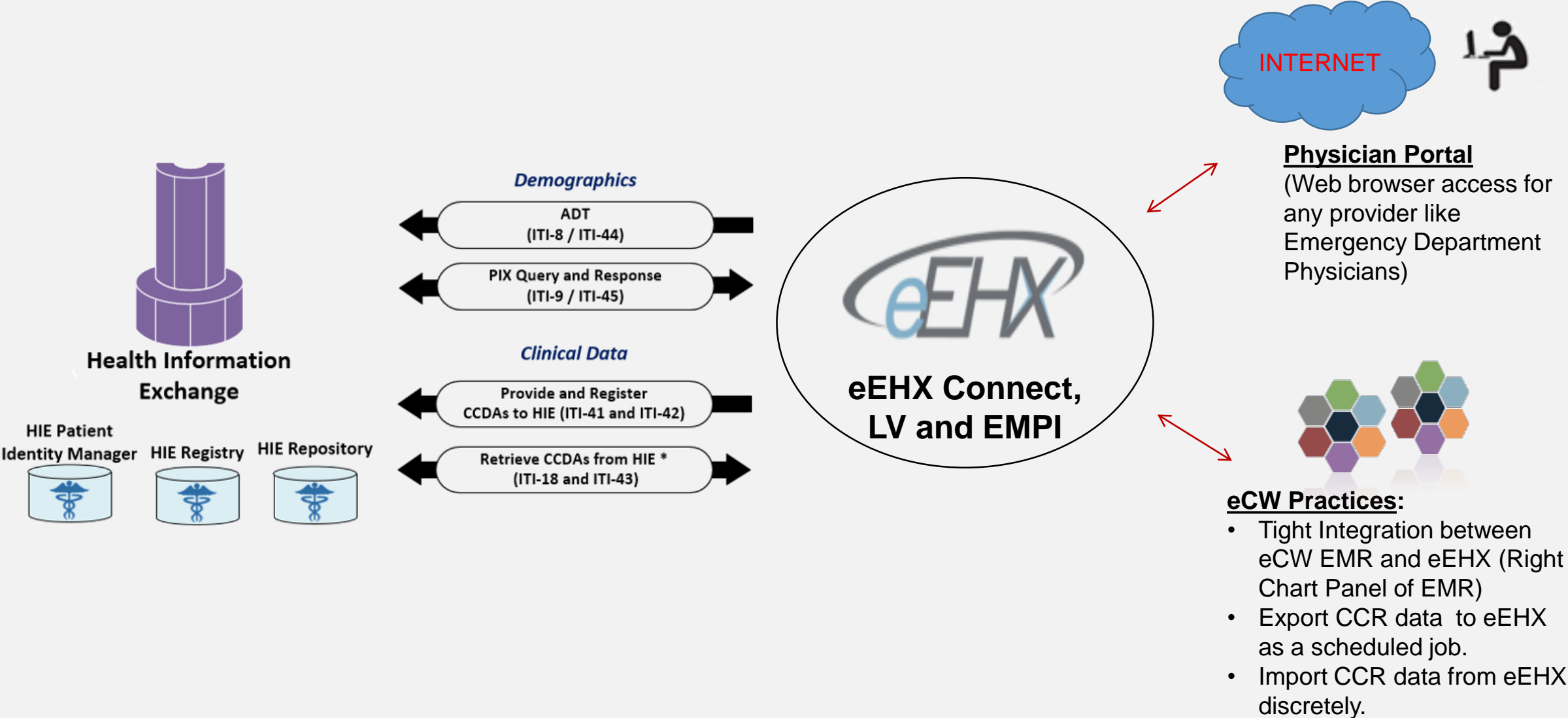# Clinical Interfaces

Clinical Interfaces
Lab, Radiology, Departmental Reports

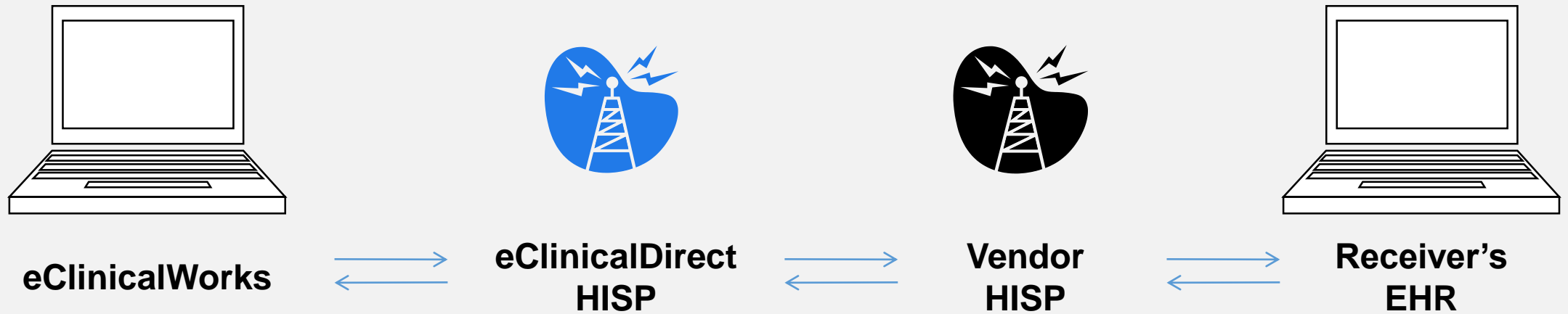- HL7 Orders Outbound

- HL7 Results Inbound

- HL7 Reports Inbound

- Hospital Integrations

- Vendor Integrations

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HIE / Direct

Health Information Exchange Integrations

eEHX Connect, LV and EMPI

Demographics

ADT
(ITI-8 / ITI-44)

PIX Query and Response
(ITI-9 / ITI-45)

Clinical Data

Provide and Register
CCDAs to HIE (ITI-41 and ITI-42)

Retrieve CCDAs from HIE *
(ITI-18 and ITI-43)

Health Information Exchange

HIE Patient Identity Manager   HIE Registry   HIE Repository

INTERNET

Physician Portal
(Web browser access for any provider like Emergency Department Physicians)

eCW Practices:
- Tight Integration between eCW EMR and eEHX (Right Chart Panel of EMR)
- Export CCR data to eEHX as a scheduled job.
- Import CCR data from eEHX discretely.

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Direct Integration

eClinicalWorks → eClinicalDirect HISP → Vendor HISP → Receiver's EHR

John.Smith @ NMA.eclinicaldirectplus.com

Recipient/Sender — Sub-Domain — Domain

Integrated into the eClinicalWorks EMR; No separate portals or logins needed

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Carequality and CommonWell

Nationwide Interoperability

Two leading nationwide initiatives:
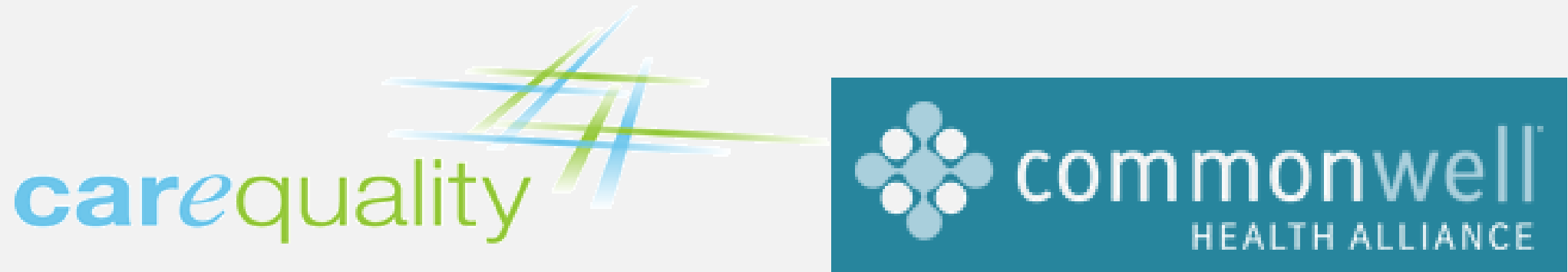
eClinicalWorks is a member of both!
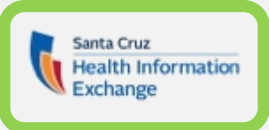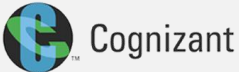
Interoperability Solution
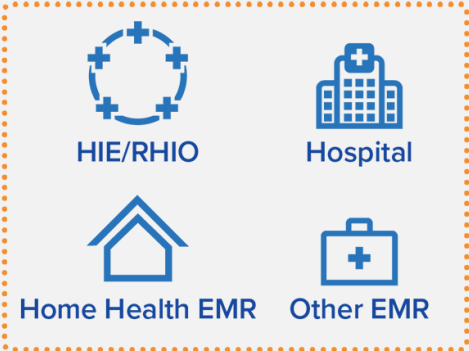
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CommonWell Members

Carequality Members

What do they do?

On-demand exchange of clinical data

- On-demand – Occurs at check-in, no extra clicks

- Exchange – Bi-directional

- Clinical Data – CCDA

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Automated Query

Automatic query upon arrival

Document notification on the Interactive Clinical Wizard

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Clinical Data

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SMART on FHIR

Provider-Centric SMART on FHIR Apps

Substitutable Medical Applications and Reusable Technologies

- Low barriers to entry for app developers – fosters innovation

- Gives the substitutability option to users of an app

- Standardization reduces integration and maintenance times for EMR vendors

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Provider-Centric SMART Apps – Technical Workflow

OAuth Based EHR App Launch

EHR

1. Choose App (from registered apps)

2. Launch Information (URL, Token)

3. Authorization / Data Access Request

5. Auth Token + User Context + Patient Context

4. Authorize Access

6. FHIR API Resources Request

7. FHIR Resources

APP

8. Launch App and Display Data

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Prisma

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Prisma

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