The Internet in Ukraine

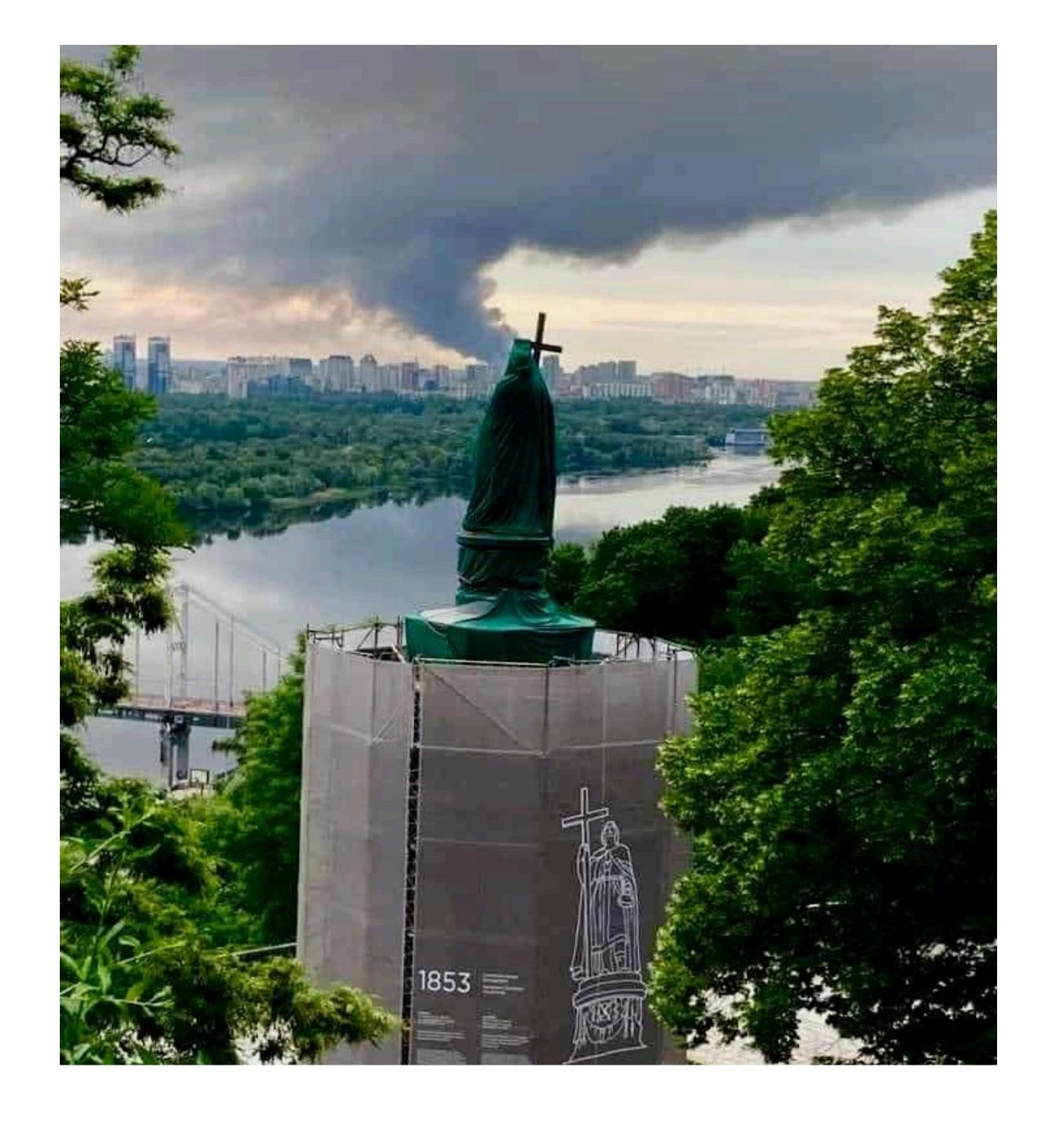
200 days of Resistance

Svitlana Tkachenko Hostmaster.ua RIPE 85 meeting Belgrad 28.10.2022

Hostmaster Ltd.

.UA ccTLD
gov.ua Registry
about 20 employees in 3 cities
EPP, WHOIS, RDAP, DNSSEC services
Anycast
LIR ua.hostmaster

2022-02-24
Military attack



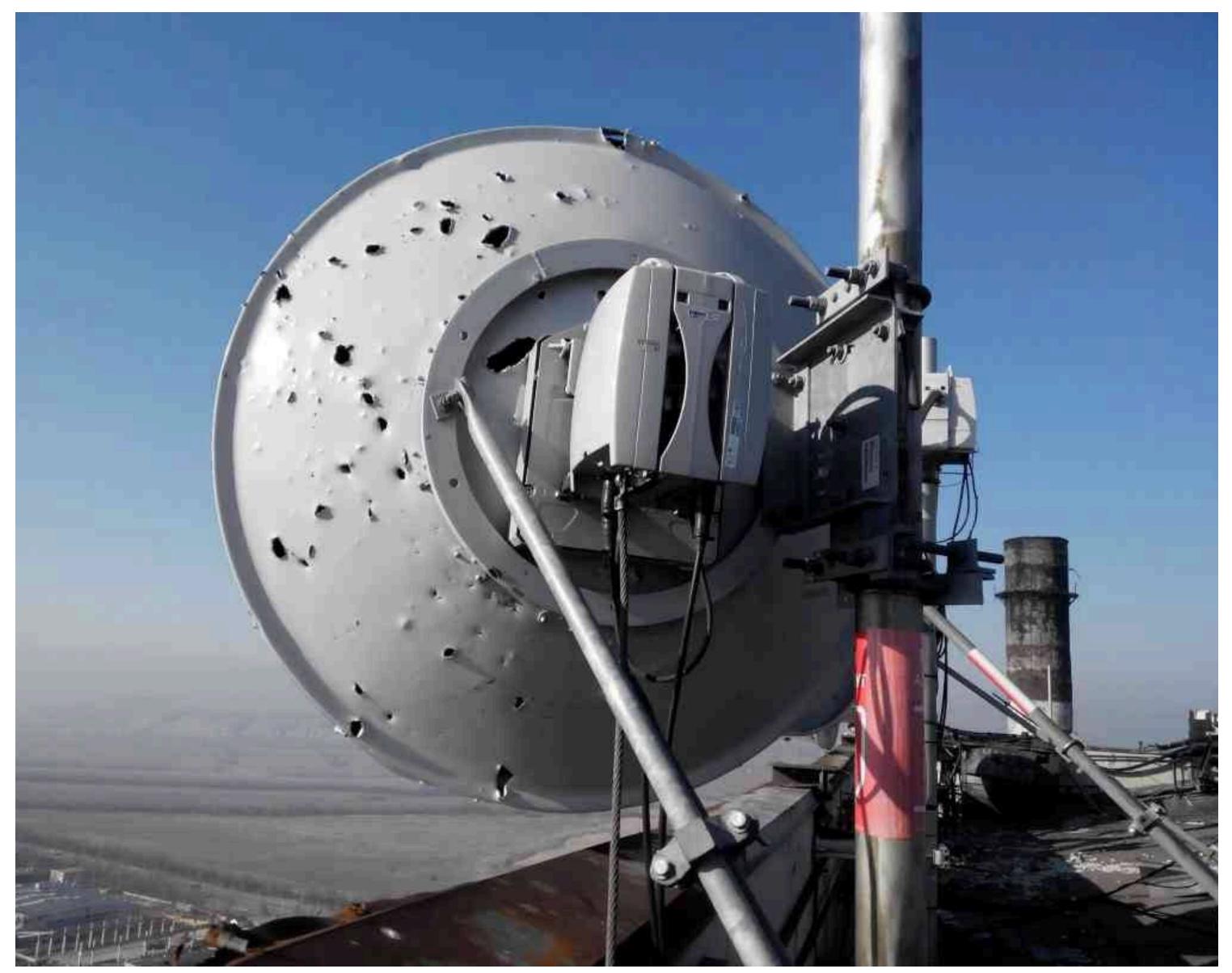
.UA Registry

- message to RIPE, ICANN, CENTR, international colleagues
- keep the Registry working (at all costs)
- invent new types of verification (email, chat, phone)
- not delete expired domains
- keep in touch with all clients
- gov.ua registry

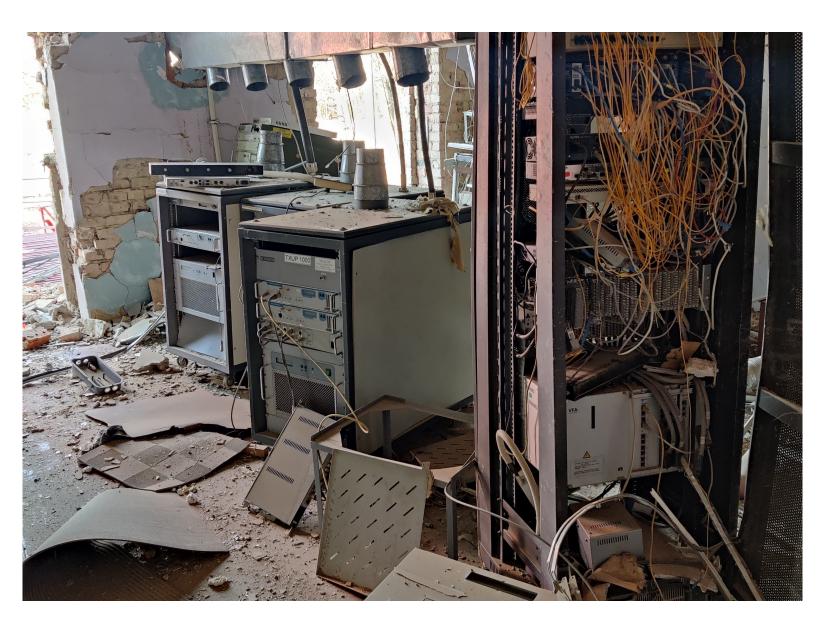
.UA Registry

Priorities

- People
- Data
- Services
- Money and time







Internet infrastructure

in the first 4 months 1/4 of all network were destroyed

critical infrastructure in occupied territories

land and buildings are mined

routing switching (in the occupied territories)

ISP

reports from "battlefield"

(2.03.2022) ISP network availability indicators by SLA levels:

- BORDER (BORDER ROUTERS) 99.98%
- CORE (NETWORK CORE) 99.16 %
- DISTRIBUTION (BACKUP NETWORK) 98.90%

Starlink

- march 2022
- October 2022
- 25 thousand terminals



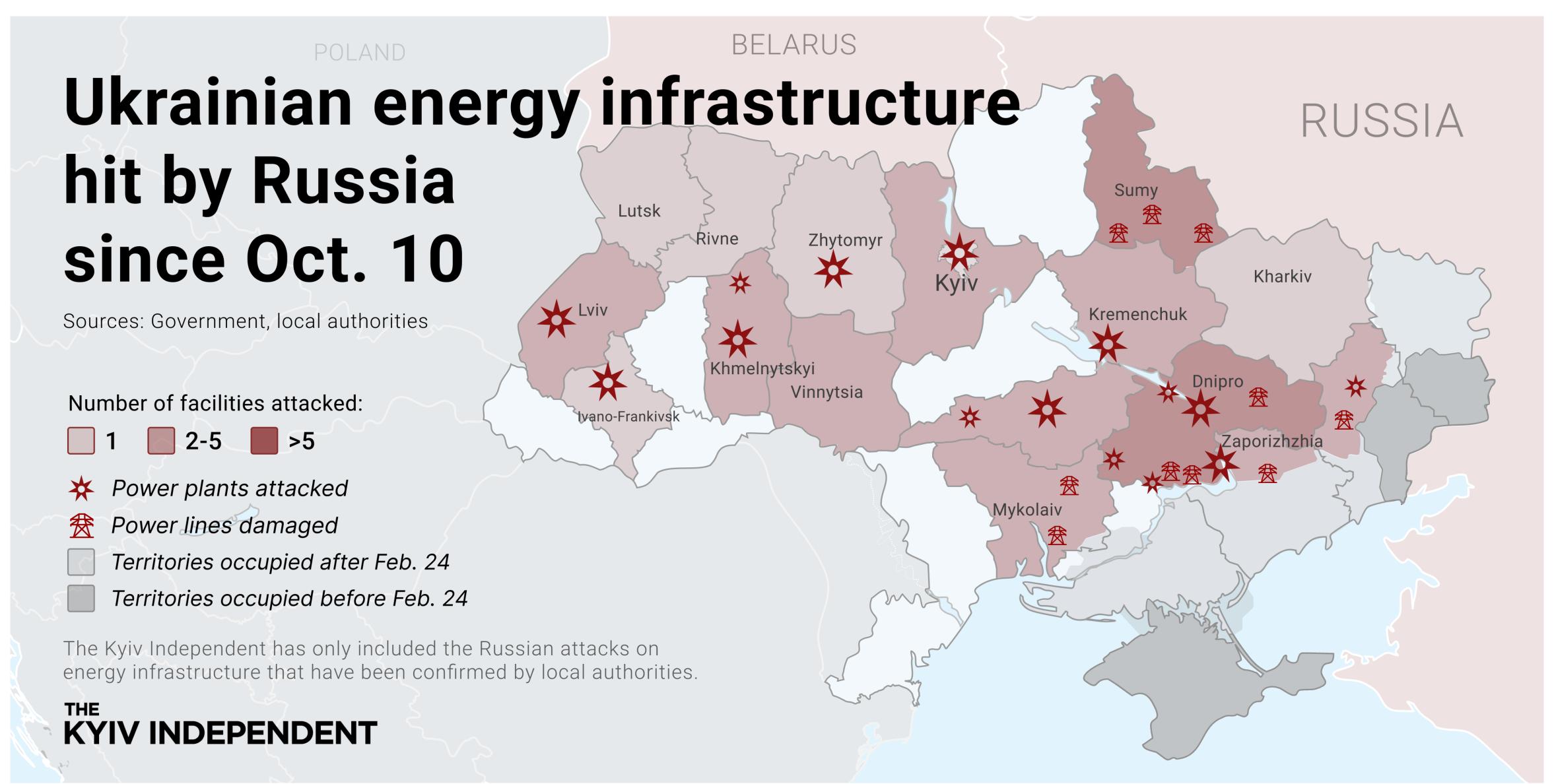
2022-10-10 (Monday morning)

75 missiles, 40 destroyed

11 infrastructure facilities were damaged



Blackouts



Since 2022-10-10

- missiles and drones
- scheduled blackouts (4 12 hours a day)
- diesel generators, power supply units
- conserve energy
- shutdown
- internet and mobile interruptions



Ukraine Internet strengths

- COVID19
- 97-99% broadband internet coverage
- "state in smartphone"
- DIY (Do It Yourseft)
- high level of competition
- decentralisation
- PEOPLE

Gratitude

- supporting members of TLD and RIPE community
- CZNIC for hosting our hosting our infrastructure
- IANA staff
- CENTR board
- Ukrainian ISP in Ukraine and abroad
- 6connect, Netnode, RcodeZero, Cloudflare
- Global NOG Alliance

Keep Ukraine connected

https://nogalliance.org

- more 1 million US dollars have arrived in Ukraine through the Global NOG Alliance
- About 30 operators in Ukraine received 14 welding machines Inno Instrument, 8 Fujikura welding machine, 24 reflectometers
- many many more



Plans

- restore
- build infrastructure
- background for digital services
- be part of the global internet community



Being Ukrainian means not only being ready for the end of the world, but also having plans for what comes afterwards.

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Questions?

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