DNSSEC Deployment Metrics Research

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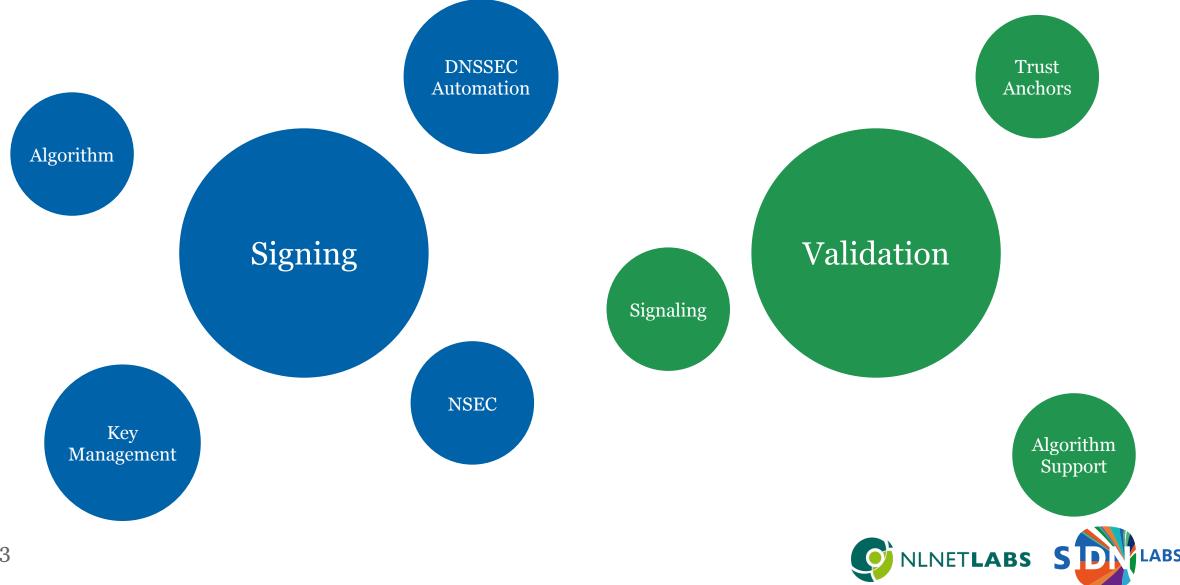
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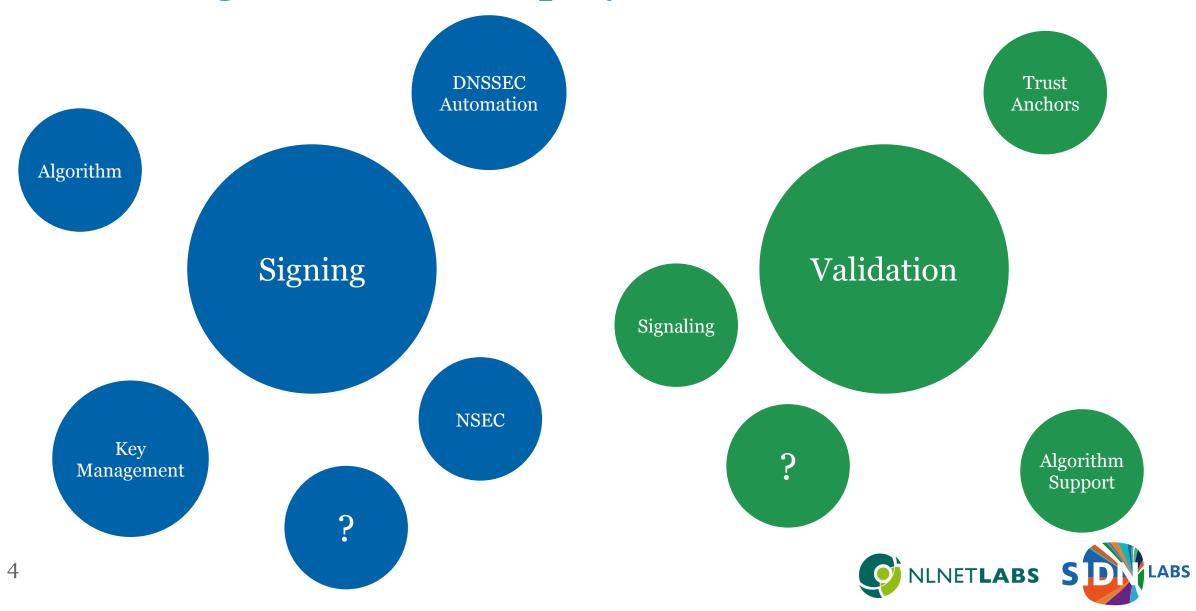


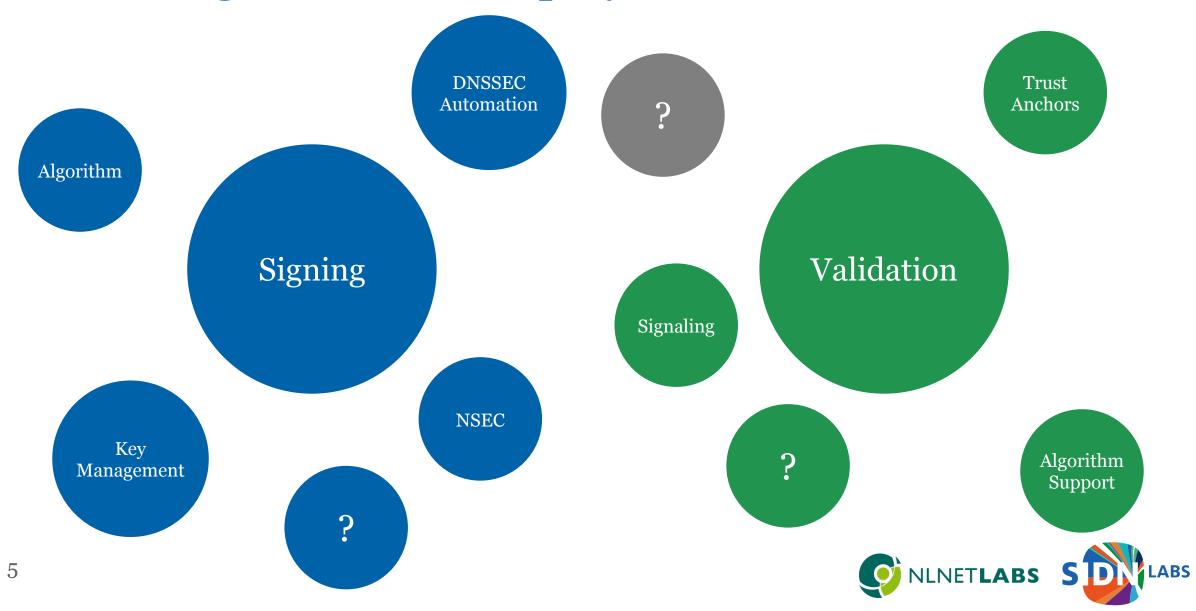












2. Challenge: One metric, different measurement techniques

Passive		vs		Active
End user	vs	Recursive Resolver	vs	Authoritative Name Server
Measurement platform		US		"Hack"
Raw		US		Aggregated
Full control		US		Reliant on third party
Transparent		US		Opaque



Our Approach

- 1. Study a broad range of research
 - from academia
 - presented at conferences by the industry (RIPE, ICANN DNSSEC workshop, ...)
- 2. Gap analysis with identified metrics
- 3. Develop assessment framework to assess measurement techniques



Technique Assessment

- Measurement technique has large impact on each metric
- Assess each technique based on:
 - **Coverage** which parts of the ecosystem can be measured theoretically and with what bias?
 - **Reproducibility** are all measurement parameters known and is the setup transparent?
 - **Feasibility** does the technique rely on 3rd parties e.g., data or access to vantage points?



Measurements in the interest of the community

When you could name one DNSSEC metric that should be measured, what would that be?



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When you could name one aspect that is most important when measuring a metric, what would that be?



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