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- Research contract embedded in animal health law (TierGesG) .
- Diagnosis, prevention, control incl. treatment of animal diseases
 Health and welfare of food producing animals from the honey bee to cattle
- Protection of humans against zoonoses



2



FLI Key Figures

- 5 locations in Germany
- 12 institutes
- 89 Laboratories
- 163 stables
- 850 staff members
- 10,500 animals (~250 large animals)
- up to BSL4



4



5





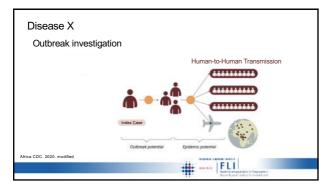
FLI on the forefront of One Health
1. institute of Bacterial Infections and zonoases (IBIZ)
2. institute of Jeidemiology (IFE)
3. institute of Infectology (IMED)
3. institute of Molecular Virology and Cell Biology (IMVZ)
4. institute of Molecular Bachgomesis (IMP)
5. institute of Normal Generging Infectious Diseases (INT)
9. Institute of Animal Walfare and Animal Multitute of Diagnostic Virology (IVD)

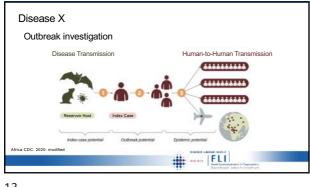


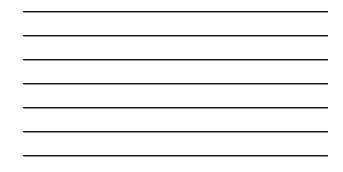


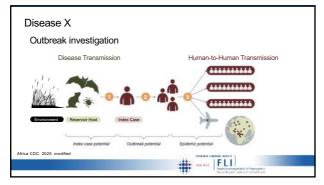


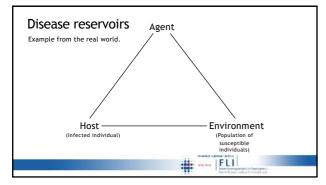




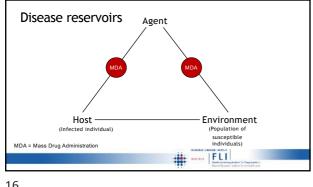


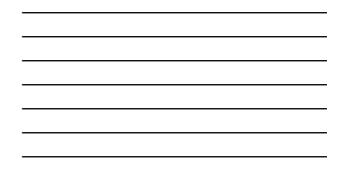


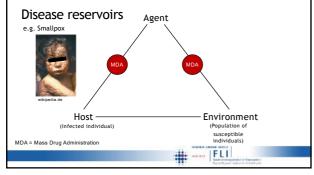


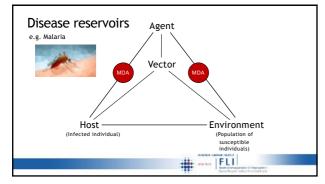






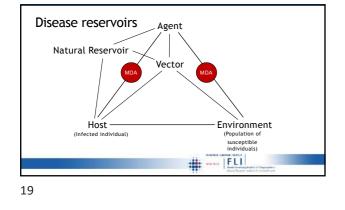




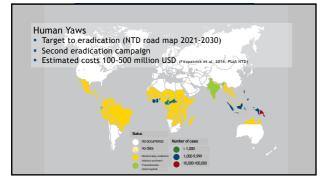




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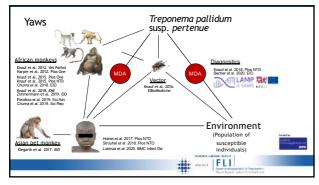


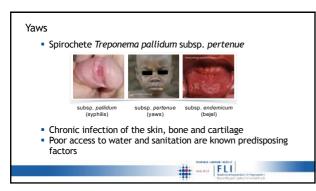


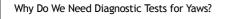






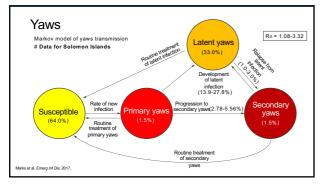


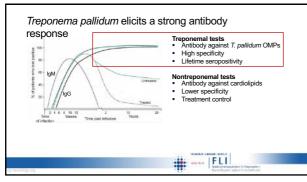




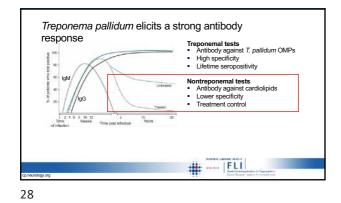
Many skin diseases can look like yaws (*Treponema pallidum* vs. *Haemophilus ducreyi*)
 It can be difficult to tell the difference by observation



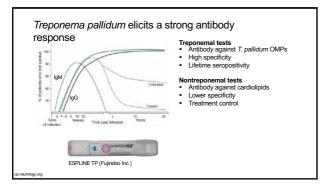




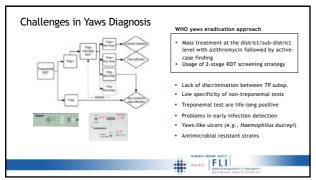






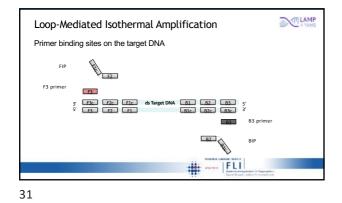


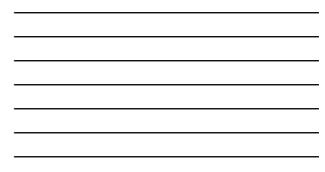




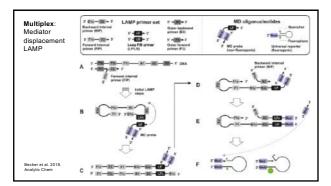








Loop-Mediated Isothermal Amplification Additional loop primers can enhance amplification efficacy Start template for chain reaction and exponential amplification $\underbrace{FIP}_{FIP} \underbrace{FIP}_{FIP} \underbrace{FIP} \underbrace{FIP}_{FIP} \underbrace{FIP}_{FIP} \underbrace{FIP} \underbrace{FIP}_{FIP} \underbrace{FIP}_{FIP} \underbrace{FIP} \underbrace{F$





TPHD-LAMP	LAMP 4 YAWS
 Mediator displacement LAMP – Treponema pallidum (pol A gene) and Hemophilus ducreyi (16S rRNA gene) amplification 	
Limit of Detection (LoD) similar to qPCR (Becherer et al, 2020. EID)	
 High analytical sensitivity and specificity of the single plex assay <i>T. pallidum</i>: 84.7% sensitivity/95.7% specificity <i>H. ducreyi</i>: 91.6% sensitivity/84.8% specificity (Becherer et al. 2020. EID) Isothermal and rapid (64°C for 45-60 minutes) 	mast-group.com
34	







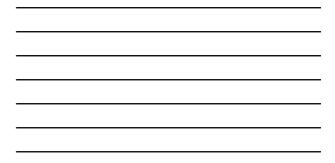


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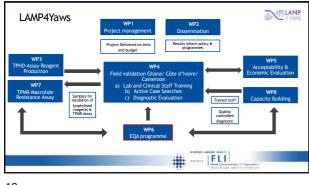
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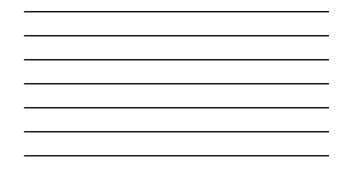


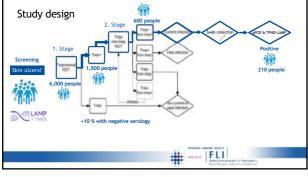
 Outreach and dissemination of the project's primary and final outcomes

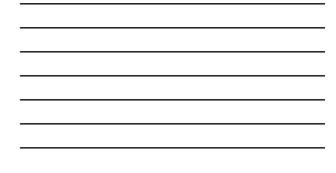
and Mile Sectors

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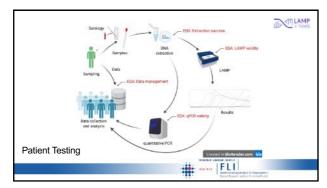








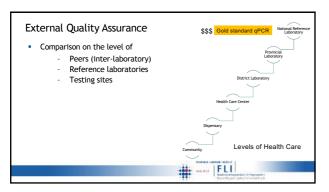




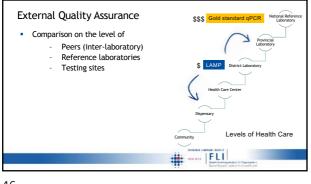




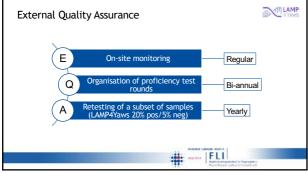


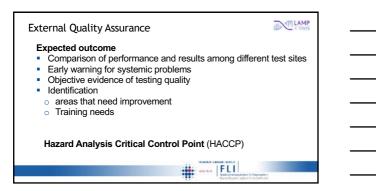




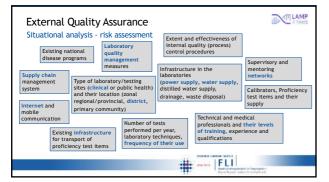


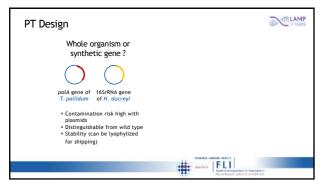




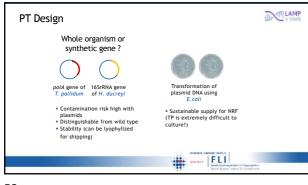








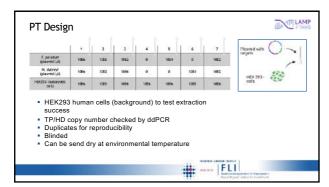




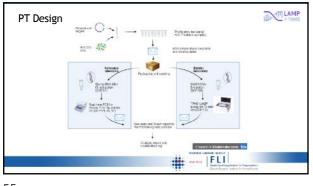




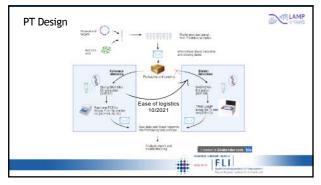




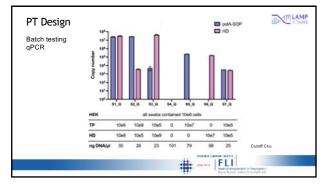


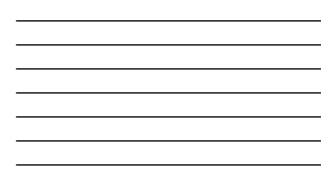


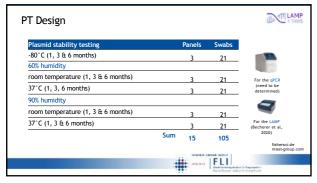






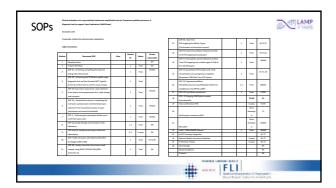


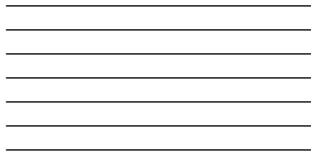


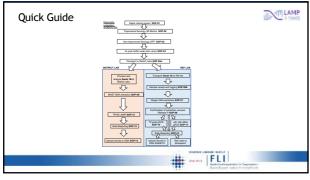


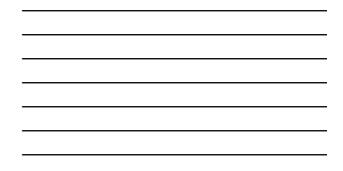


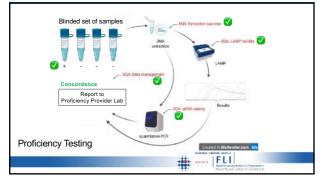


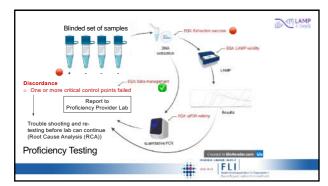






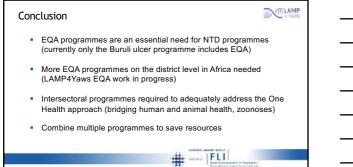








E	QA Summary		
	 EQA standard mean of quality assurance in medical laborate diagnostics (HACCP) 	ory	
	 Allows objective comparison of test results between Peer group of laboratories Reference laboratory Testing sites 		
	EQA and proficiency testing (PT) is a prerequisite to guarantee correct, standardized and comparable diagnostic tests within and across health care programs.		
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