



World Organisation
for Animal Health
Founded in 1924

中华人民共和国农业农村部
Ministry of Agriculture and Rural Affairs of the People's Republic of China

Best practices on diagnostics, surveillance and control/elimination efforts for Brucellosis

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Department of Livestock Development

THAILAND

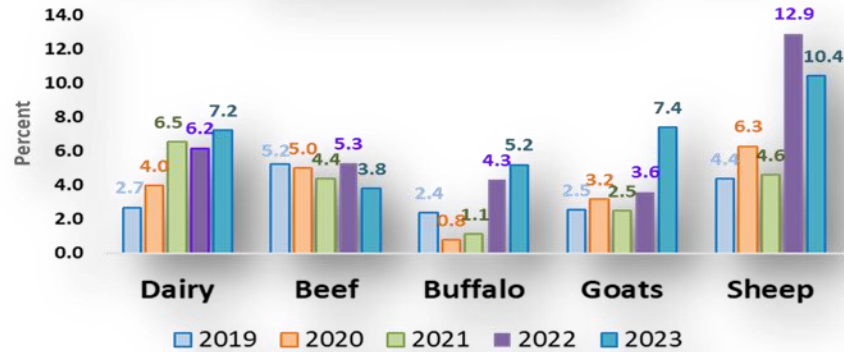




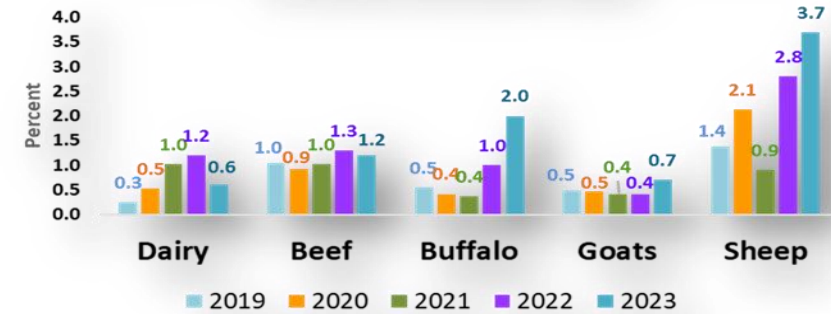
Current disease situation

2

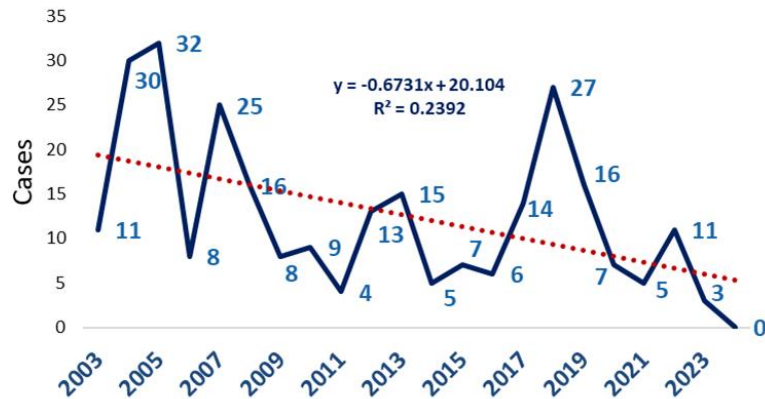
Adjusted brucellosis sero-prevalence in livestock
at **herd level** (2019-2023)



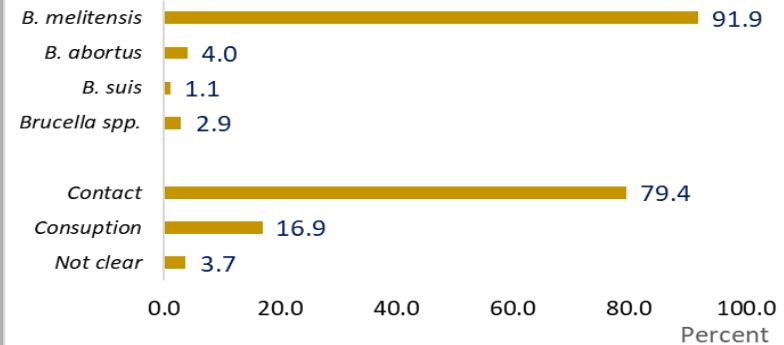
Adjusted brucellosis sero-prevalence in livestock
at **animal level** (2019-2023)



Human Brucellosis 2003-2024
(Accumulated clinical and seropositive cases)



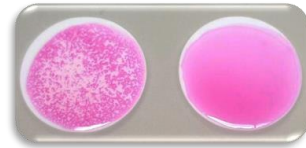
Number of accumulated *Brucella* spp. in human with
clinical and seropositive cases and route of
transmission during 2003-2024 (272 cases)





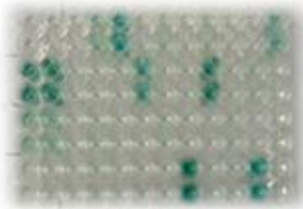
Laboratory Diagnosis

Sero-screening test



Rose Bengal test

Confirmation test

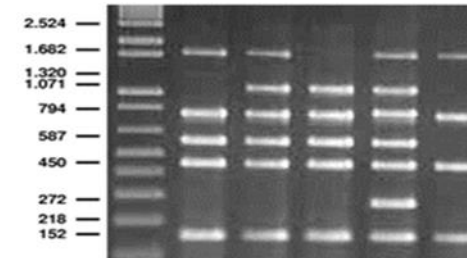


I-ELISA

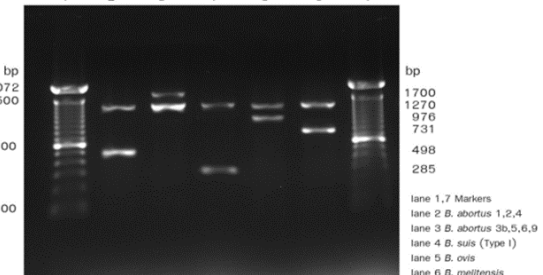


Complement fixation test

Isolation and Identification



PCR : *Brucella* spp. identification



The multiplex PCR (Bruce-ladder)



Surveillance

Annual Prevalence Survey: A dairy cattle/breeding large ruminant older than 1 year old and goats and sheep more than 6 month were tested

Laboratory surveillance: Sample from the field

Clinical surveillance: Animals showing symptoms of brucellosis

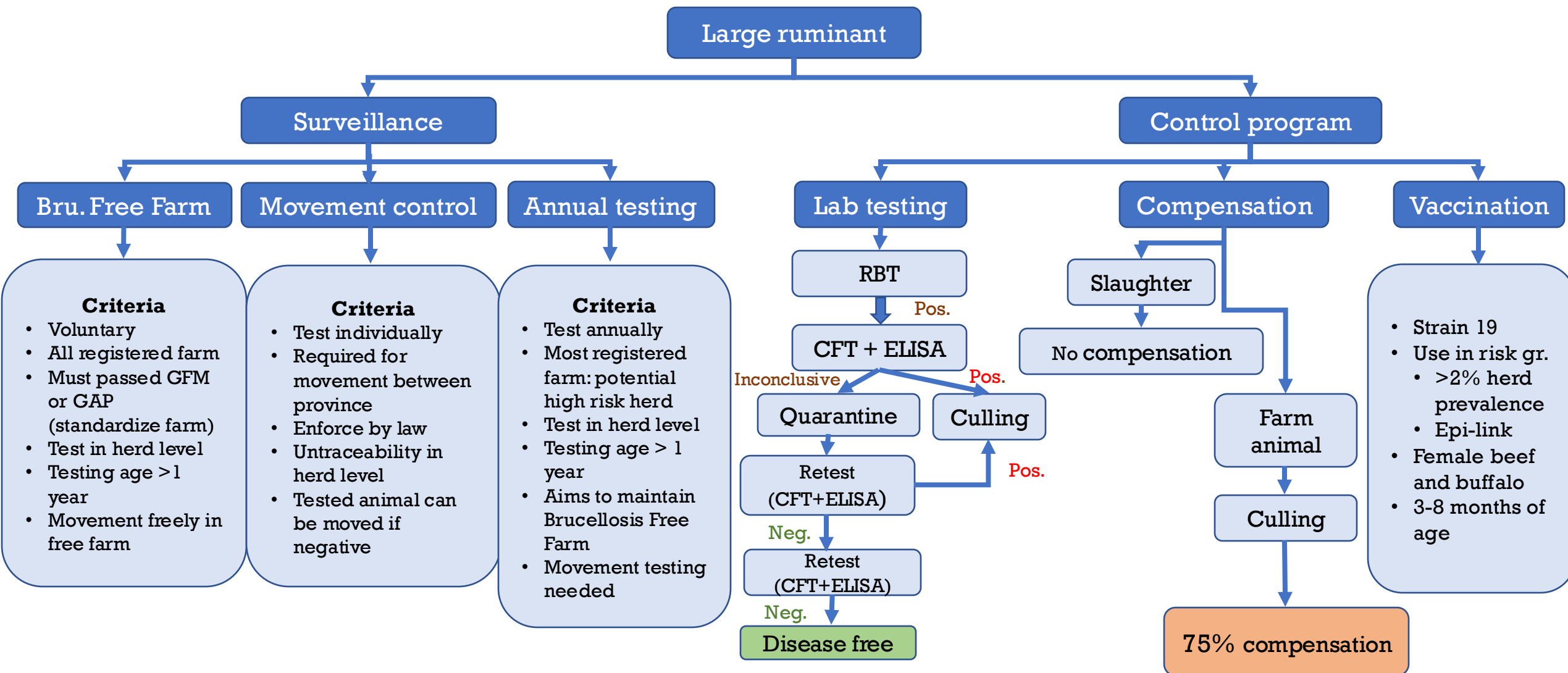
Animal movement: Animals that originated from brucellosis-free farms are allowed to move freely and animals that do not meet this criterion must be tested. **All imported animals** are required to undergo testing

Testing

- Screening test: Rose Bengal test
- Confirmation: CFT and I-ELISA (parallel)



CURRENT ANIMAL BRUCELLOSIS CONTROL PROGRAM IN THAILAND: LARGE RUMINANT





Positive animals from surveillance

Slaughtering positive animals: all positive animals will be culled and owner will obtain **75%** of market price of the animals

Quarantine all susceptible animals for further additional testing

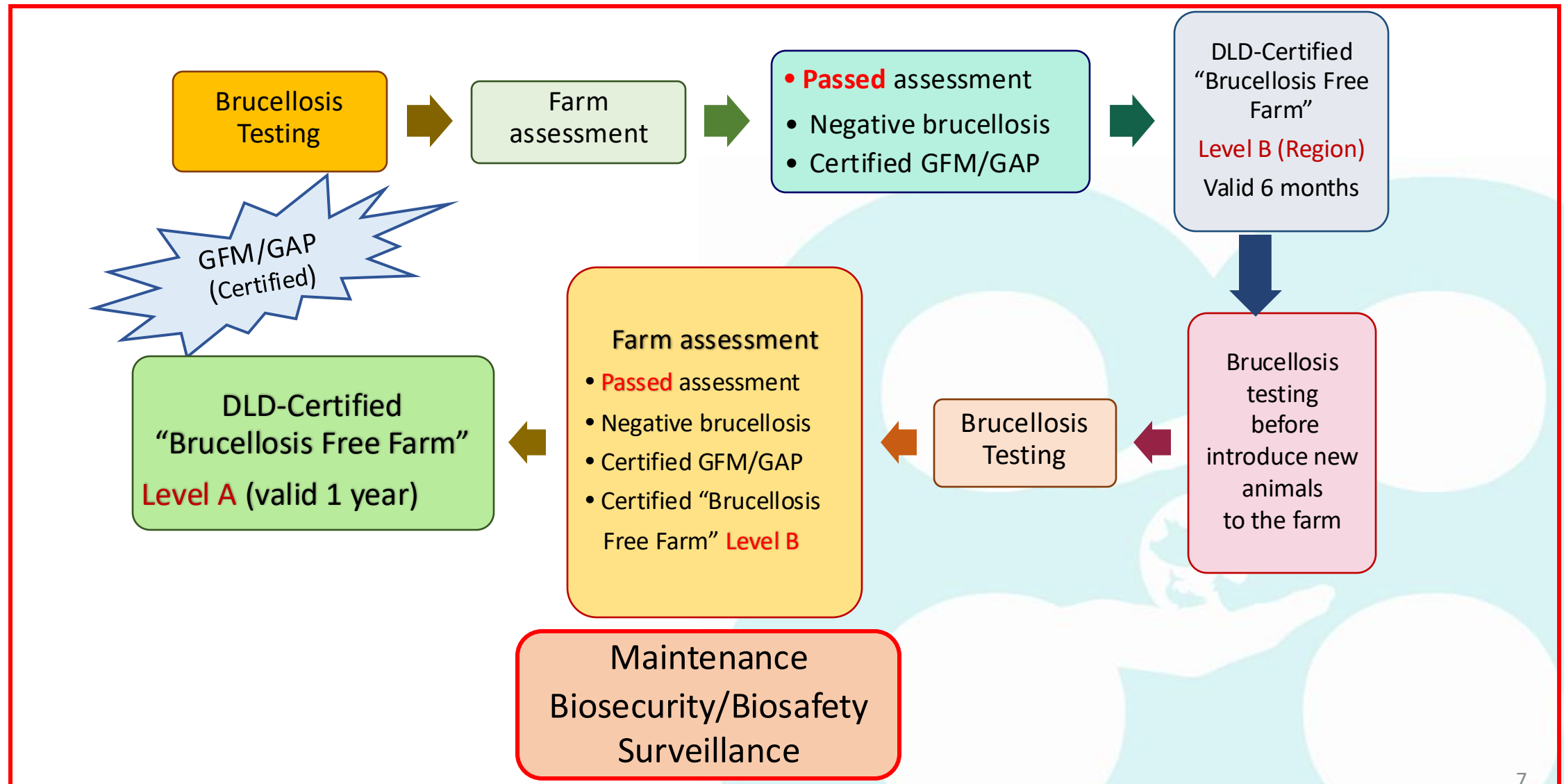
The remained animals in infected herd were tested every **2** months till the results were negative continuously **3** times and then in **6** months and find negative result again after **6** months

Collaboration on outbreak investigation: Bureau of Disease Control and Veterinary Services, NIAH and Regional labs., and DDC Ministry of Public Health



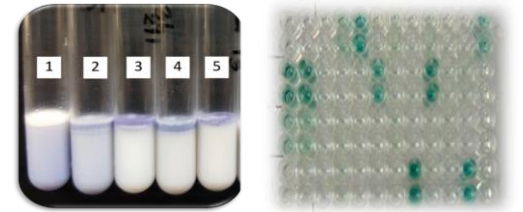


Brucellosis Free Farm: Sheep and Goats





- Elimination programme: based on a strategy that reflects the epidemiology of the disease, farming system, and veterinary infrastructure and be regular reviewed and adapted
- Expanding animal testing: milk (cattle) surveillance program
- Appropriate guideline: all relevant epidemiological criteria at national/regional level
- Compensation schemes: regularly reviewed
- Collaboration: PH-AH-EH including private sectors
- Network: Asia-Pacific Bovine Serum Interlaboratory Proficiency Test





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Thank you!

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