

Energy with care about nature

Design, construction, and
service of biogas plants



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SUMMARY

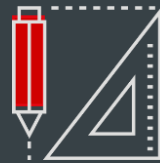
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Our services

related to biogas



**Concept and
Initial data collection**



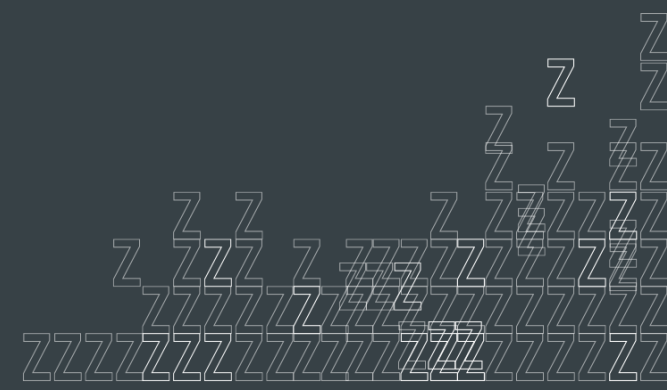
**Design,
Permissions, and
Authorizations**



**Construction,
Equipment supply,
and Installation**



**Start up
Service**



Zorg Biogas is a biogas plant construction firm with offices in Munich, Zurich.

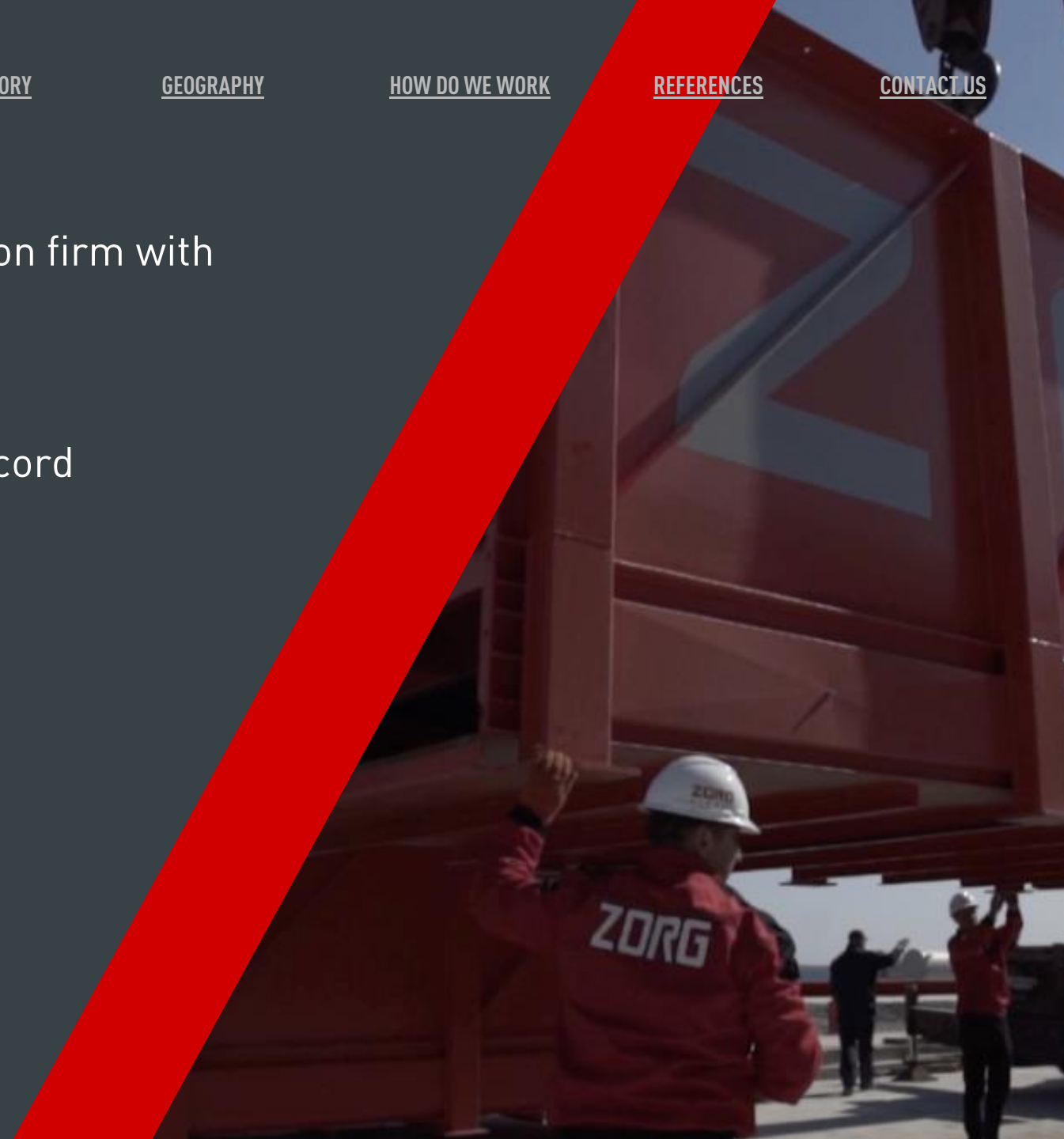
26 MW electrical power production record

17 years of experience

12 countries

28 million EUR

30 personnel





Key personalities



Dr. Alex Golod (70)
General Director

- Doctor of Science in Chemical Technology
- Worked in research and production at enterprises processing organic waste
- Responsible for procurement



History

15 years of experience and nonstop progress



Founded by two engineers

2007

2008

The 1st biogas plant (635 kW) was constructed at a cattle ranch in Velikiy Krupil, Ukraine



Geographic expansion to Turkey, Latvia, and Kazakhstan

2010

2013

Revenue hits 2.5 M euro. 15 staff, geographic expansion, and solutions development

History

New high-load reactor technology.
Revenues 21 M euro.
56 staff.

2018

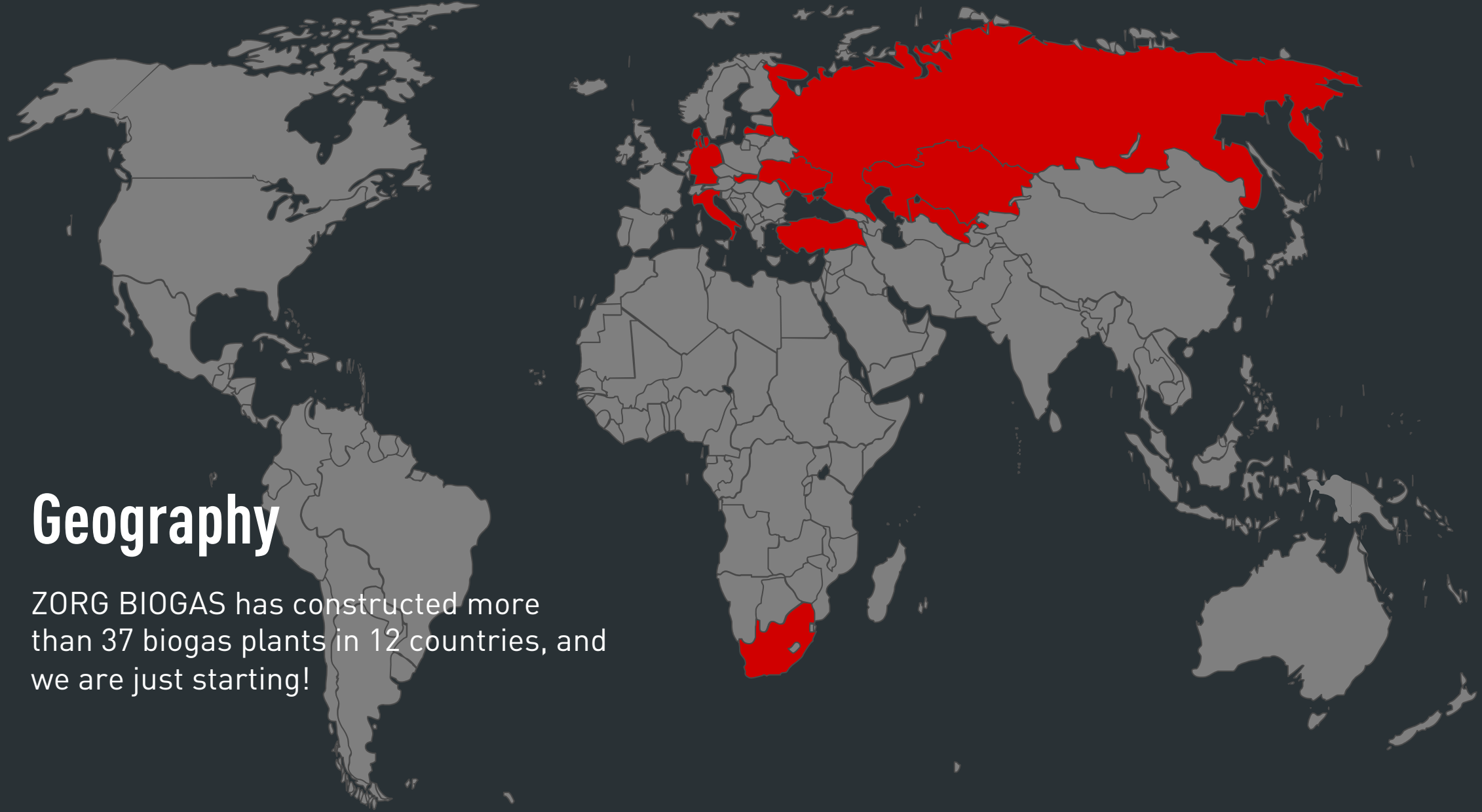
2019

The biggest biogas plant in Eastern Europe (26 MW) put into operation.
Implementation of straw pretreatment for biogas

2020

Zorg Biogas continues geographic expansion with 2MW project in Russia.

Zorg Biogas has designed more than 100 plants in 18 countries.



Geography

ZORG BIOGAS has constructed more than 37 biogas plants in 12 countries, and we are just starting!

The biggest plant
in the world
Teofipol
26 MW el



Korsun, 7.5 MW

Korsun-Shevchenkivskiy, 2019 line 2019

Raw materials: sugar beet pulp 400 tonnes/day

Steel digester **technology**

Tank volumes: 3x8,200 m³ + 1x4,000 m³

Rokytne, 2.4 MW

Rokytne, Ukraine 2015

Raw materials: sugar beet pulp 250 tonnes/day +
cow manure 100 tonnes/day

CSTR classic **technology**

Tank volumes: 4x3,600 m³



Teofipol-1, Teofipol-2

15.6 MW

Teofipol-1, 2017

CSTR **technology**

4 digestors x 3,800 m³ + 2 post-digestors x 3,800 m³

Raw materials: pressed sugar beet pulp and cow manure

CHP GE Jenbacher 3 x 1.2 MW + 1.5 MW, total = 5.1 MW

Teofipol-2, 2018

High-load **technology**

4 digestors x 3,200 m³ + 2 post-digestors 5,000 m³

Raw materials: maize silage

CHP GE Jenbacher 7 x 1.5 MW, total = 10.5 MW

Voroshnewo, **2 MW**

2021

Raw materials: sewage sludge 100 tonnes +
dung 50 tonnes + slaughterhouse waste
20 tonnes daily

CSTR classic **technology**

Tank volumes: 4 x 3600 m³

Gorodishche, **2.4 MW**

Gorodishche-Pustovarivske,
2019

Raw materials: sugar beet pulp 355
tonnes/day

CSTR (2 stage) **technology**

Tank volumes: 2x3,800 m³ + 1x3,800 m³



Okny, 1.2 MW

Okny, 2018

Raw materials: maize silage
CSTR (2 stage) **technology**

Tank volumes: 1x3,800 + 1x3,800



Linovitsa, **2.4 MW**

Linovitsa, 2018

CSTR (2 stage) **technology**

Raw materials: sugar beet pulp 415 tonnes/day, roots 10 tonnes/day, manure 50 tonnes/day

Tank volumes: 2x4,200 m³ + 1x4,200 m³

Zhuravka, 1.2 MW

Zhuravka, 2018

CSTR (2 stage) **technology**

Raw materials: pig slurry 137 tonnes/day +
maize silage 57 tonnes/day

Tank volumes: 1x3,800 m³ +1x3,800 m³



Karaganda, 1 MW

Karaganda, Kazakhstan 2018

Raw materials: poultry dung (100 tonnes/day 75% wet + 100 tonnes/day 95% wet)

CSTR classic **technology**

Tank volumes: 2x3,600 m³

Cimisheny, **637 KW**

Cimisheny, Moldova 2018

Raw materials: pig slurry 250 tonnes/day
+ slaughterhouse waste 10
tonnes/day

CSTR classic **technology**

Tank volume: 1x4,200 m³



Tirnovo, **637 KW**

Tirnovo, Moldova 2018

Raw materials: poultry dung 30 tonnes/day + maize silage
10 tonnes/day

CSTR classic **technology**

Tank volume: 1x3,600 m³



Tartltonne, 1 MW

Tartltonne, Gauteng South Africa 2015
Rugani Carrots factory

CSTR classic **technology**

Raw materials: carrot and pumpkin pulp

Tank volumes: 2x4000 m³

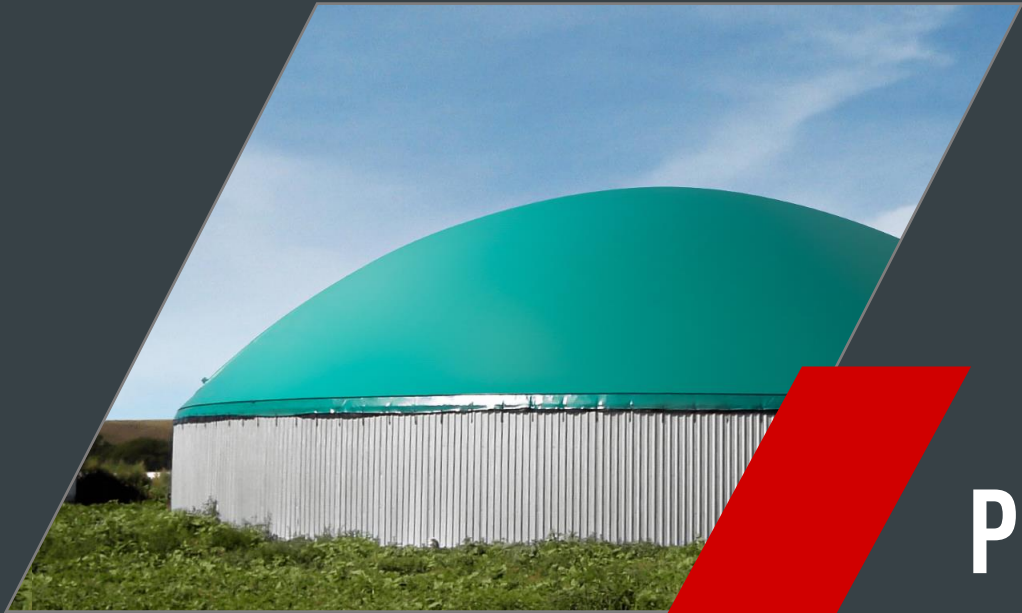
Hincesti, 1.063 MW

Hincesti, Moldova 2013

Raw materials: distillery molasses
wastewater 180 tonnes/day
+ cow manure 20 tonnes/day

CSTR classic **technology**

Tank volumes: 2x2,400 m³



Pidhorodne, **125 KW**

Pidhorodne, Ukraine 2013

Raw materials: pig slurry 40 tonnes/day

CSTR classic **technology**

Tank volume: 1x2,400 m³



Kamenica nad Cirochou, **1.2 MW**

Kamenica nad Cirochou, Slovakia 2012

CSTR classic **technology**

Raw materials: maize silage 50 tonnes/day + pig manure 11 tonnes/day

Tank volumes: 2x2,900 m³



Citta di Castello, **999 KW**

Citta di Castello, Italy 2012

CSTR (2 stage) **technology**

biogas CHP Jenbacher for tobacco factory



Osimo, 999 KW

Osimo, Italy 2011

CSTR classic **technology**

Raw materials: maize silage 40 tonnes/day + chicken
dung 40 tonnes/day

Tank volumes: 3x2,400 m³



Vircava, **600 KW**

Vircava, Latvia 2011

CSTR (2 stage) **technology**

Raw materials: maize silage 30 tonnes/day

Tank volumes: 1x2,400 m³ + 1x1,400 m³



Cicedagi, **250 KW**

Cicedagi, Turkey 2009

Raw materials: cattle manure 50 tonnes/day +
maize silage 3 tonnes/day

CSTR classic **technology**

Tank volume: 1x2,400 m³



Karasu, 250 KW

Karasu, Kazakhstan 2009

Raw materials: manure 44 tonnes/day +
grain waste 1 tonne/day

CSTR classic **technology**

Tank volumes: 2x2,400 m³

Voznesensk, 125 KW

Voznesensk, Ukraine 2009

Raw materials: maize silage 10 tonnes/day

CSTR classic **technology**

Tank volume: 1x1,200 m³

Velikiy Krupil, **635 KW**

Velikiy Krupil, Ukraine 2008

Raw materials: cattle manure slurry 400 tonnes/day

CSTR classic **technology**

Tank volumes: 3 x 2,400 m³

We are ready to answer your questions

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