## REGENERATING WATER AND VALUE

MARIE LANDFORS INVESTMENT PRESENTATION 191212





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#### REGENERATING WATER AND VALUE

- ✓ Urgent need for sustainable water management
- Untapped potential in the underserved global water purification market
- AxoPur<sup>®</sup> as an innovative answer to the existing problems
- ✓ Team know-how to meet customer needs
- First generation of automated standard product ready for delivery
- ✓ From product development to sales and delivery







## POSITIVE MARKET OUTLOOK AND DRIVING FORCES



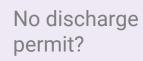
#### PROJECTION OF WATER WITHDRAWAL IN RELATION TO SUPPLY BY 2040



#### EXISTING INDUSTRIAL WATER CHALLENGES









Costs too high?

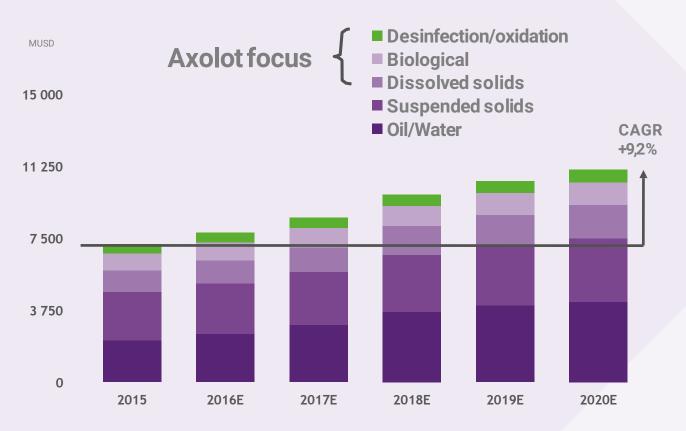
Limited area for waste water treatment?



Limited productivity?



# INCREASED GLOBAL SPEND ON INDUSTRIAL WATER PURIFICATION AROUND THE GLOBE



#### Source: GWI Industrial Water Technology Markets 2015

#### Key drivers of market growth

- Increasingly scarce water resources
- Tighter regulations for waste water
- Challenge to maintain industrial production

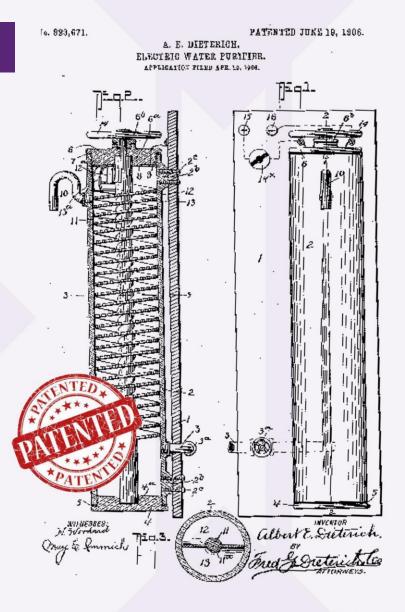


## AN INNOVATIVE WATER PURIFICATION SOLUTION



#### BASED ON WELL-PROVEN PRINCIPLES

- We provide technologies for water purification first and foremost our propriatary AxoPur<sup>®</sup> technology
  - $\mathsf{AxoPur}^{*}$  is based on the principles for Electrocoagulation
  - The principles were patented in 1906 by Albert E. Dietrich in the USA
- We have built a technical system based on the AxoPur<sup>®</sup> reactor and optional modules, utilizing modern process technology and automated operation
- We work actively with patents to protect our inventions
- We provide customer specific and sustainable solutions
- Specifically adressing the growing concern and awareness on water purification needs in the industry





#### WE COMBINE THE BEST OF WORLDS



Mechanical processes (Filter/Membrane)

- Fast
- Compact

Physicochemical/ Biological processes

- Broad cleaning spectrum
- Possible to tailor against cleaning needs

#### Added value

- Cost-effective
- Destabilising emulsions
- Coagulates living matter
- Impurities form a floc instead of a sludge

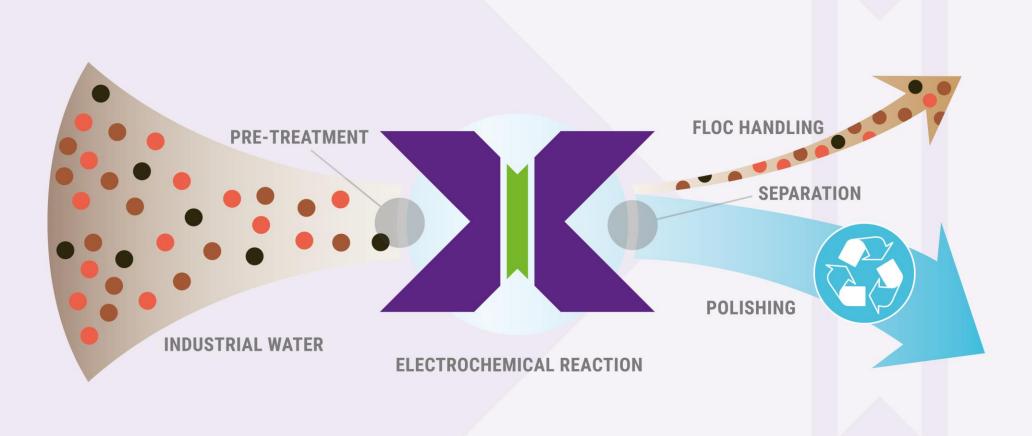


#### WHY AXOLOT SOLUTIONS?

- 1. Cost-effective purification/separation
- 2. Broad cleaning spectrum
- 3. Rapid process and compact physical footprint
- 4. Easy recovery (water, energy, material)
- 5. Knowhow to meet customer needs



### ENABLING RECIRCULATION





## WHERE WE ARE TODAY



#### OUR STORY

2014 Axolot Solutions is founded Technical development starts Dec 2016 Patent portfolio acquired July 2018 Startup of first commercial reference (pre-series) Nov 2018 Listed on the Nasdaq First North Growth Market Oct 2019 AxoPur<sup>®</sup> System 1.0 ready for delivery



#### LESSONS LEARNT 2014-2019

- Continuous development of the technical capabilities of our technology
- First generation of automated standard product ready for delivery
- Increase in market analysis and customer processing
- Significantly increased awareness in target industries



#### ACCOMPLISHMENTS 2019

- ✓ Accelerated commercial activity
  - ✓ Increased number of customer contacts
  - ✓ Sales resource recruitment completed in Sweden
  - $\checkmark\,$  Additional prospecting resource in Finland
- ✓ Review and update of commercial tools
  - ✓ CRM-system choice and implementation
  - New commercial agreements and updated insurance
  - ✓ Updated sales presentation
  - ✓ Defined business and pricing model
- Locked technical concept and first generation of automated standard product ready for delivery





#### ACCELERATED CUSTOMER ACTIVITY

| Axolot Solutions teck<br>med större tillverkar  | 'e av  |                         |                 |  |  |
|---|--|-------------------------|-----------------|--|--|
| MA, SEP 02, 2019 10:45 CET<br>Axolot Solutions har tecknat avtal med en större tillverka  |  | knat nytt provkörningsa | avtal med Vafos |  |  |
| <b>till företagets returmassalinje.</b><br>Försöken kommer att genomföras under oktober månad och<br>på sikt att få till stånd en ökad grad av systemslutning, och dä | Axolot Solutions har tecknat ytterligare ett prov  | <b>-</b> .              |                 |  |  |
|   | Avtalet omfattar fortsatt arbete med att finna en lösning för att reducera slipmassaproduktionens utsläpp av suspenderade och syreförbrukande ämnen. Den nya studien är en fristående fortsättning på den provkörning som Axolot genomförde på plats i Vafos under september månad. Axolots förhoppning är att kunna stödja Vafos hela vägen tills bruket fått en långsiktigt hållbar lösning för sitt avloppsvatten på plats. |                         |                 |  |  |
| Axolot Solutions  | s has signed a trial agr   | eement with a custom    | er in England   |  |  |

Axolot Solutions AB has signed a trial agreement with a chemical manufacturer in the South-East of England.

The purpose of the trial is to assist with processing of recycle streams.

#### Axolot Solutions AB signs a new trial agreement with a paper manufacturer in Norway, Hellefoss A/S.

The objective of the trial is to perform initial water purification trials in order to find a solution for the reduction of suspended and oxygen consuming material in process water from their production unit in Hokksund. The new study is a standalone continuation of the trials completed by Axolot Solutions earlier this year for Vafos A/S, in the same company group as Hellefoss Paper. The study will be performed in December and will support future investment decisions.



### UNIQUE CUSTOMER CASE

- A chemical manufacturer in South-East England
- Axolot Solutions is assisting the customer in processing of recycling streams
- The recovered material is in the floc and not in the water
- The value of the recovered material in the recovery streams is assessed to as much as 600-700 EUR/m<sup>3</sup>
- Two lab trials in Landvetter already completed with great results (> 98% recovery)
- A bench scale study completed first week of December
- Additional onsite trials in England planned in February 2020
- Core modular design and add-ons to meet customer requirements





#### BUSINESS MODEL NOW DEFINED

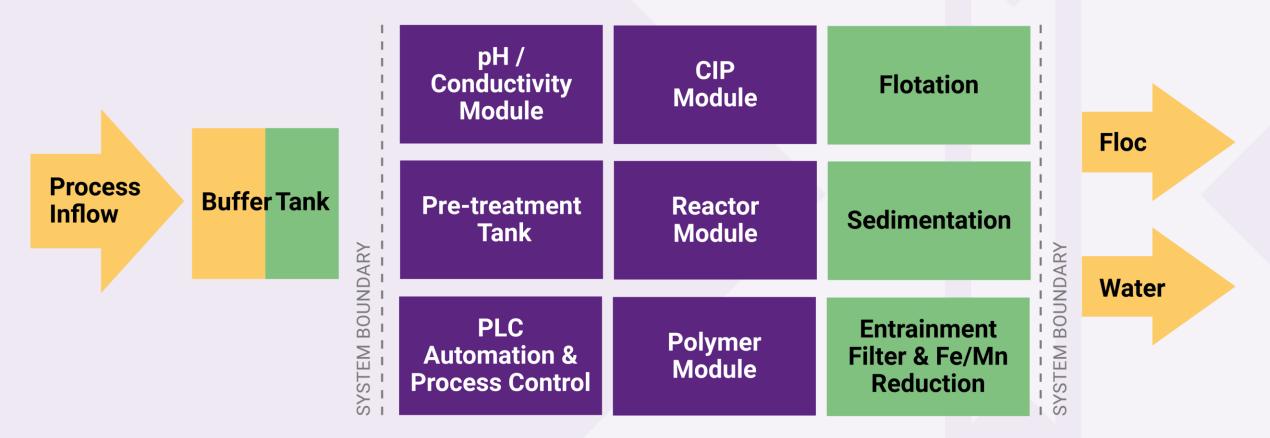
# Commercial full scale system implementation

- Lease/Buy of the equipment (including a licence to use the AxoPur<sup>®</sup> cells)
- Maintenance & Service agreement
  - Fixed maintenance over time
  - On-call duty model





### LOCKED AxoPur<sup>®</sup> SYSTEM DESIGN



Colour keys

| Outside<br>System | Core<br>System | Optional configuration |
|-------------------|----------------|------------------------|
|-------------------|----------------|------------------------|



## LOOKING AHEAD





### TARGET MARKET & IDEAL CUSTOMER

- Our target market is industries and waste owners
- Key objective is removal of one or several of our technical specialties
  - Oil/Fat emulsions
  - Phosphorous-containing compounds
  - Transitional metal ions
  - Large organic compounds
  - Suspended material
- Flow size aligned with current capabilities (3-50 m<sup>3</sup>/h)
  - Annual flow from ~20,000 m<sup>3</sup> to 400,000 m<sup>3</sup>
- Smaller companies are more likely to be buying customers (as opposed to larger companies with more formal procurement processes)



### AXOLOT CAPABILITIES



High removal rate with AxoPur<sup>®</sup>

- Suspended solids
- Most dissolved solids/organic compounds of reasonable size
- Emulsified oils and fat
- Transitional metal ions
- Phosphorus-containing compounds



Special attention/ Inhouse additional processes

- Nitrogen-containing compounds
- Sulfate (and other oxosulfur ions)
- Specific organic molecules



### AMBITION 2020

- To accomplish a commercial start in a few selected market niches
- At all times have an extensive pipeline of leads
- To establish a fully functional, robust and scalable system
- Lower priority on product development
- → Focus on sales and delivery!





### KEY FINANCIALS





#### **AXOLOT SOLUTIONS GROUP - KEY FINANCIALS**

|  | Year    |  | 2019   |        |        | Accum.  |  |
|--|---------|--|--------|--------|--------|---------|--|
| tsek   | 2018    |  | Q1     | Q2     | Q3     | Q1-Q3   |  |
| Net sales                                      | 1 451   |  | 169    | 607    | 485    | 1 261   |  |
| Activated development costs                    | 1 697   |  | 236    | 754    | 774    | 1 764   |  |
| Other revenues                                 | 105     |  | 0      | 107    | 3      | 110     |  |
| Earnings before interest, tax and depreciation | -15 956 |  | -4 838 | -6 768 | -4 391 | -15 997 |  |
| Earnings before interest and tax               | -18 238 |  | -5 669 | -7 604 | -5 506 | -18 779 |  |
| Net earnings                                   | -18 186 |  | -5 669 | -7 604 | -5 506 | -18 779 |  |
| Net earnings per share (sek) *                 | -1,61   |  | -0,21  | -0,29  | -0,21  | -0,71   |  |
| Cash flow before financing activities          | -20 825 |  | -6 667 | -7 787 | -6 250 | -20 704 |  |
| Liquid funds at the end of the period          | 48 864  |  | 42 197 | 34 410 | 28 452 | 28 452  |  |
| Equity at the end of the period                | 62 478  |  | 56 812 | 49 202 | 43 972 | 43 972  |  |
| Number of employees at the end of the period   | 6       |  | 7      | 9      | 9      | 9       |  |

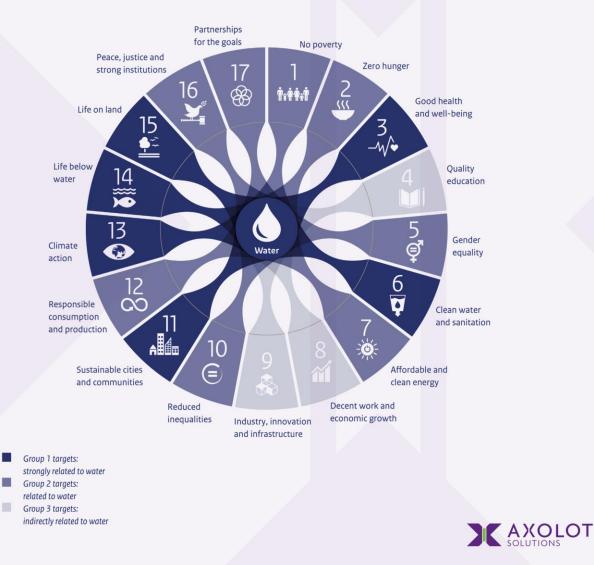
- At the end of September 2019, • Axolot had a cash position of 28.5 MSEK
- Investments in Q1-Q3 were 6 MSEK, one third for product development (AxoPur System), and two thirds for pilot equipment (trials)
- The current spend rate is • approximately 2 MSEK/month
- The organisation is set for • commercial expansion



#### CONTRIBUTING TO A BRIGHTER WATER FUTURE



### **THE GLOBAL GOALS** For Sustainable Development



The company name Axolot was chosen out of the fascination over the critically endangered mexican walking fish – the Axolotl, whose name in the aztek language nahuatl means 'water god'.

THA

YOU!

