LumiShield

- Materials and Process Company
- Creating Disruptive Change in the Anti-Corrosion Market
- By Displacing Existing Anti-corrosion Coatings and Materials including Hexavalent Chromium and Cadmium ($>6 Billion / yr)
- Through Improved Coating Performance, Reduced Environmental Impact, and Lower Cost
- Using a Proprietary Aluminum Electroplating Technology
- Seeking Investment for Production Facility Construction

Aluminum Oxide
Aluminum
Carbon Steel

Revolutionary Aluminum Coatings
Electroplating 101

Why Doesn’t Everyone Plate Aluminum?

- Every metal salt has a characteristic deposition voltage.
- Aluminum deposition has too high a voltage to be deposited in water.
- Current Technology: Rigorously dry, sealed, organic solvents in explosive conditions.
  - EXPENSIVE and DANGEROUS

**LumiShield** has developed a better solution with a unique aluminum salt at low temperature and ambient conditions!
Value Proposition

- All current commercial anti-corrosion coatings have a **limitation**.
  - Cadmium – Highly Toxic (Heavily Regulated)
  - Chromium – Highly Toxic (Heavily Regulated)
  - Zinc – Poor Lifetime
  - Just to name a few….

- **LumiShield** process
  - Non-toxic Metal (Less Regulation and Lower Waste Disposal Cost)
  - Less Expensive Materials
  - Applied Using Existing Equipment (Low Capital Investment)
  - Versatile Coating (Useful Alone, as a Primer Coat, or with Conversion Coatings)
Business Model

Manufacture of Aluminum-plated Materials:
- Customers: Manufacturers
- Extensive Requirements in Expertise, Capital Investment, Sales Network, etc
- Low Margin

Manufacture and Sale of Plating Solution (Secret Sauce)
- Customers: Electroplaters
- Low Capital Investment to Manufacture
- Makes Use of Customer Expertise, Sales Network, and Industry Contacts
- Potentially High Margin

The Secret Sauce