



Sublime Systems

Series B

April 2025



Many industries have experienced radical technological leaps that enable better quality products



Steel

Blas Furnace to EAF, DRI



Construction

High rises



Agriculture

Robotics



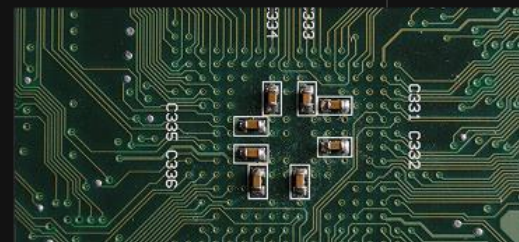
Software

From word processors to artificial intelligence



Automaking

Manual -> Robotics



Electronics

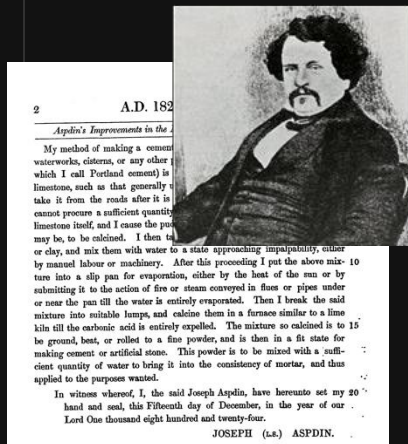
Analog to digital



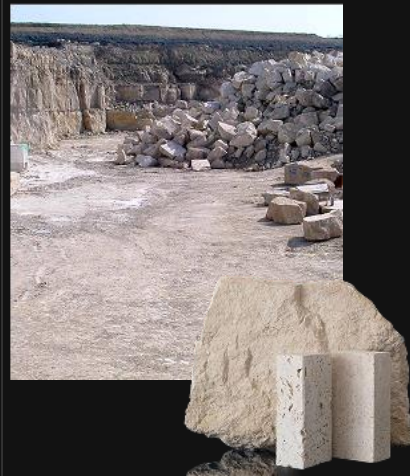
Ordinary Portland Cement was a breakthrough for 1924

1924

Invented by
Joseph Aspdin



Named "Portland" because it resembled Portland stone, a high-quality building material used in England



Made by grinding clinker and mixing it with gypsum, then heating it in a kiln



Used in concrete, mortar, and stucco, making it a foundational material for infrastructure





But cement production hasn't fundamentally changed for 200 years / has missed out on recent technology leaps in energy production, electrochemistry, etc



The process is inefficient and dirty



Wasteful



Wastes resources (half of limestone goes into air as pollution).



Wastes energy



Kiln is heated to temps hotter than an active volcano.



The product – Ordinary Portland Cement – has fundamentally issues because of how it's made

Dirty



Pollutants

- Nox
- Sox
- Carbon monoxide
- Particulate matter
- Lead
- Mercury



Health impacts

- Asthma lung tissue damage
- Cardiovascular disease
- And more...

Inconsistent



Combustion based production infuses ash, soot, limestone impurities

Durability Issues



Excess lime and chemical make up of OPC make it susceptible to sulfate attack, carbonation, reduced strength and over time



Sublime Breakthrough: a better cement ...

Cleaning up the production cleans up the product

Sublime Cement

- Durable - alkali-silica reaction, sulfate attack, chloride permeability, and rebar corrosion
- More consistent / less cement can be used in concrete
- Has inherently premium qualities; lower density, lighter color

Sublime Cement is V2 and V1



Federal White Cement

L: 91.93
A: -1.00
B: 4.69



V2

L: 78.94
A: -0.68
B: 4.66



V3

L: 74.12
A: -0.52
B: 6.17



OPC

L: 55.51
A: 0.48
B: 10.82

