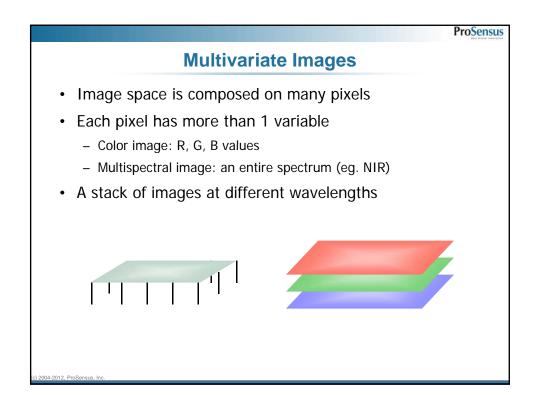
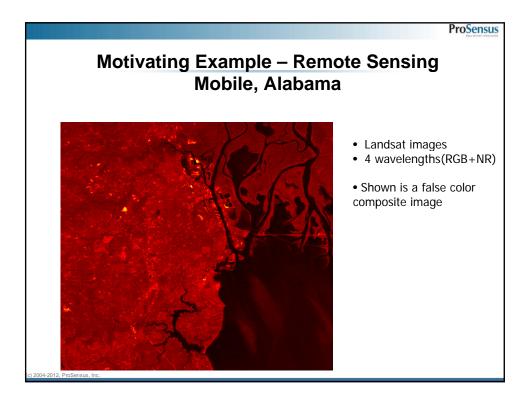
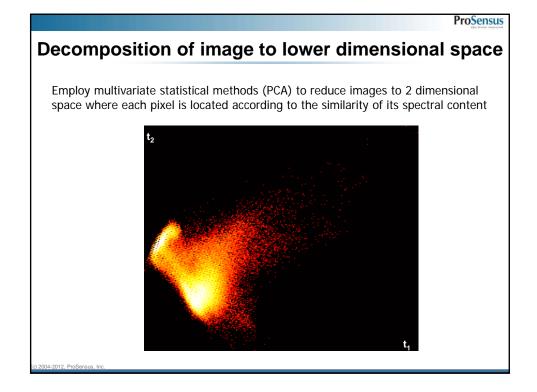
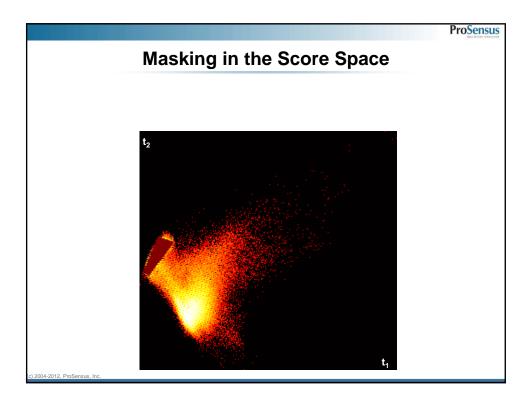


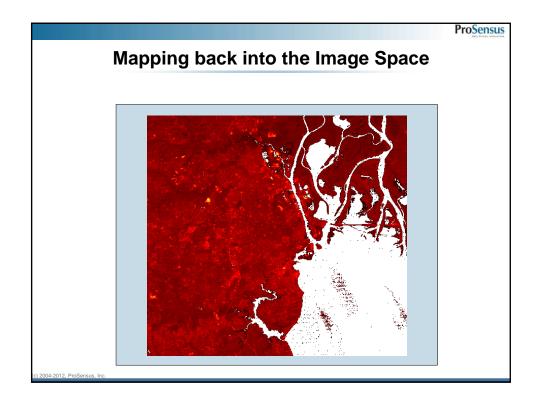
	<b>ProSensus</b>
Outline	
<ul> <li>Quick overview of advanced image analysis</li> <li>– Satellite imaging example</li> </ul>	
<ul> <li>Industrial applications to combustion processes</li> <li>– Waste Boiler</li> </ul>	
<ul><li>Lime &amp; ore kilns</li><li>BOF (steel industry)</li></ul>	
<ul> <li>Coal-fired boiler (power generating station)</li> </ul>	
Discussion	
c) 2004-2012, ProSensus, Inc.	

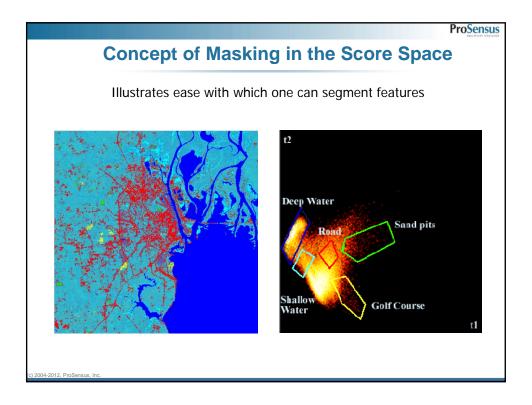


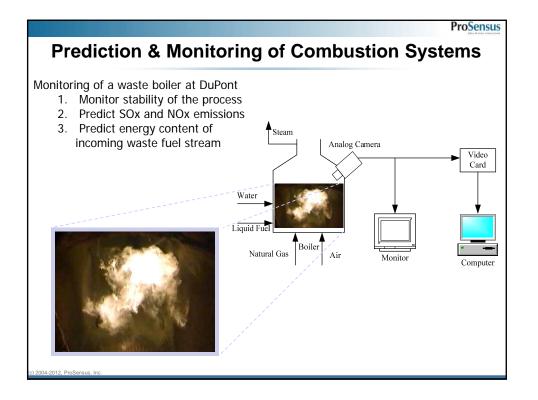


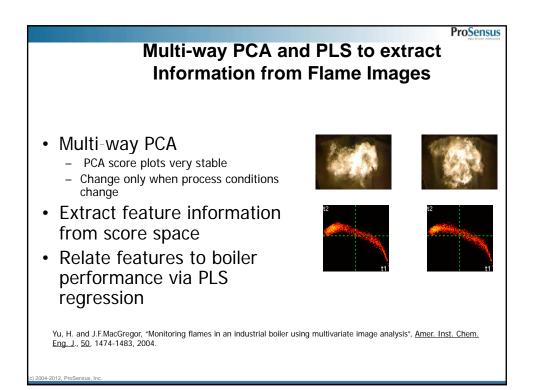


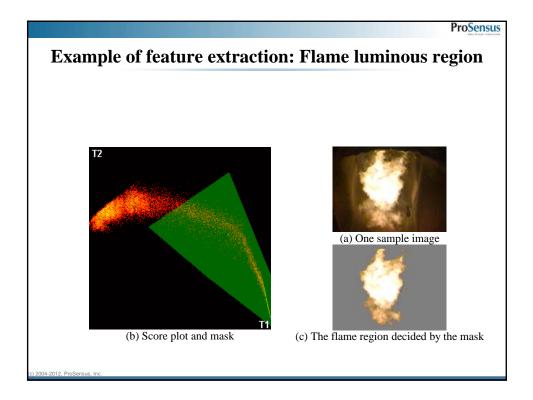


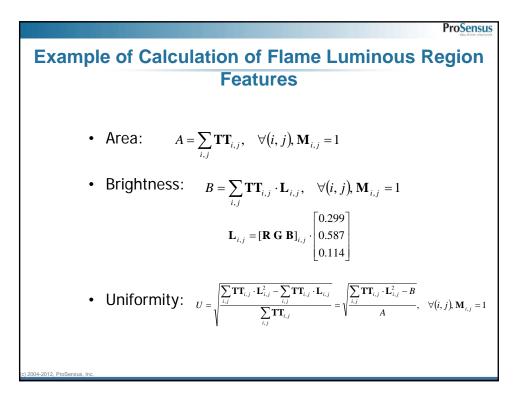


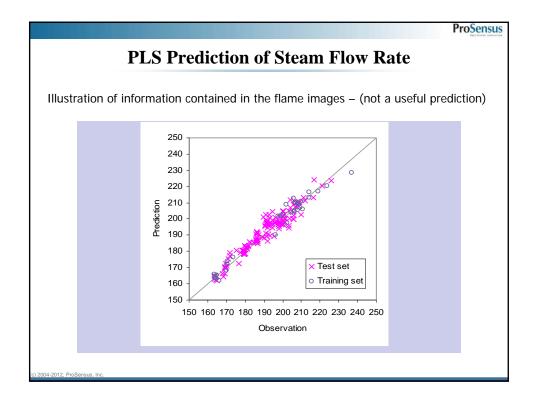


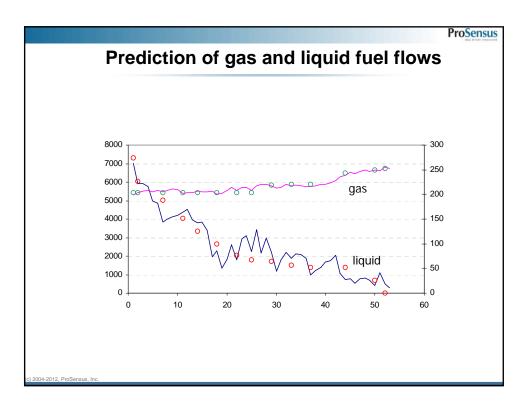


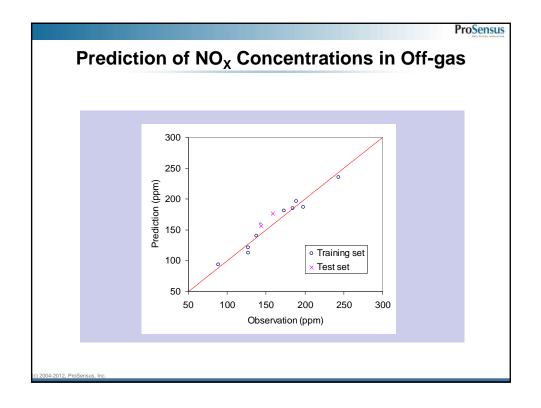


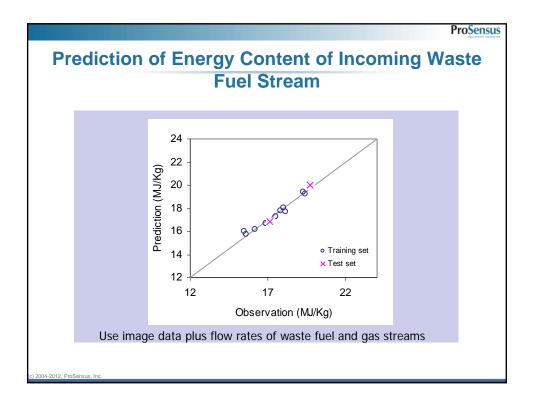


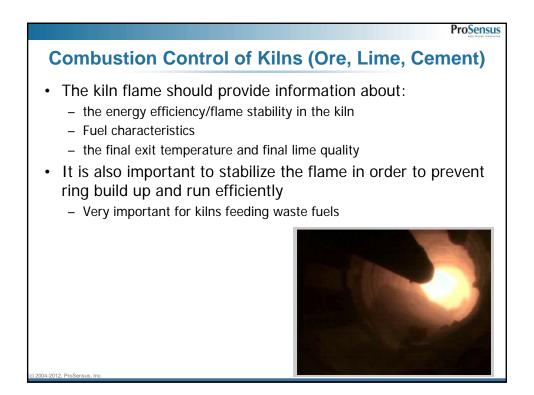


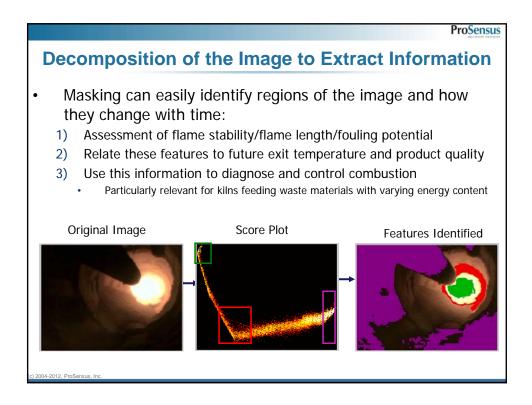


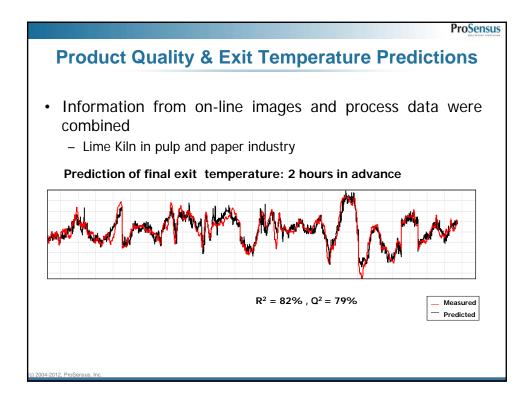


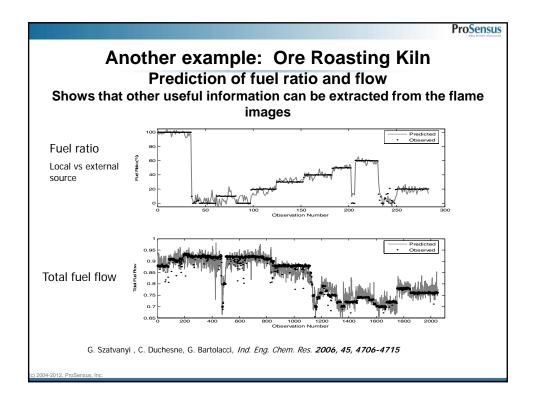












## ProSensus

## **Basic Oxygen Furnace (Steel Industry)**

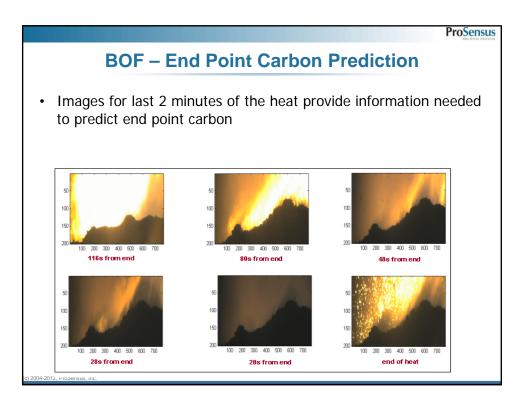
## Goal:

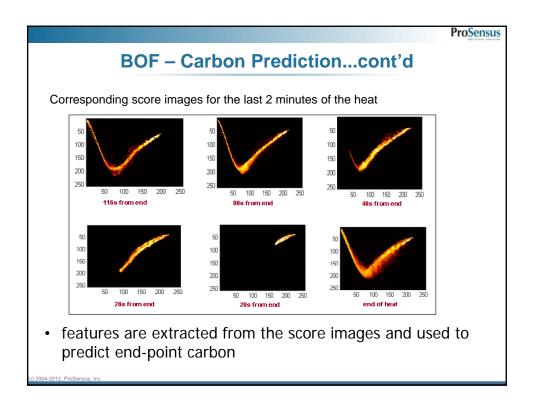
- Predict end-point carbon in this batch process to:
  - reduce oxygen consumption
  - improve product quality
  - reduce carbon measurement costs (~\$200 / measurement)

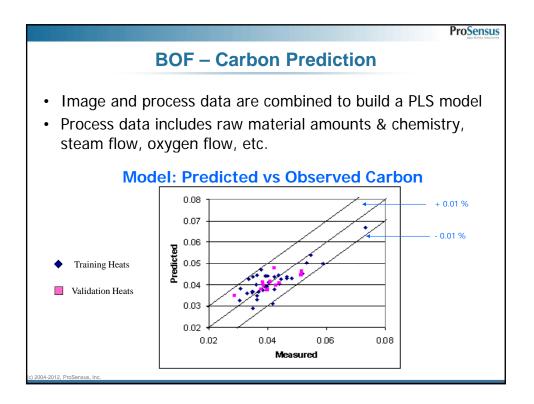


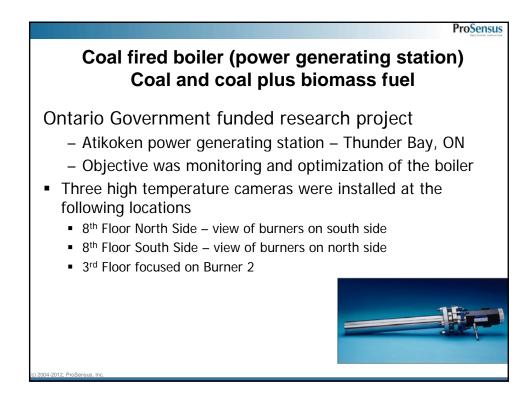
## Method:

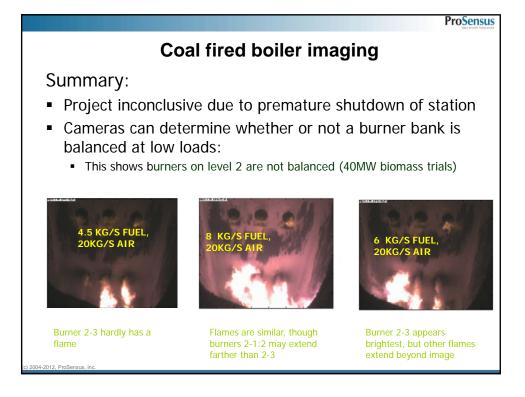
- Carbon is predicted using 2 minutes of flame images over the end of the heat plus process data
- Goal is to predict end-point carbon within ±0.01 %

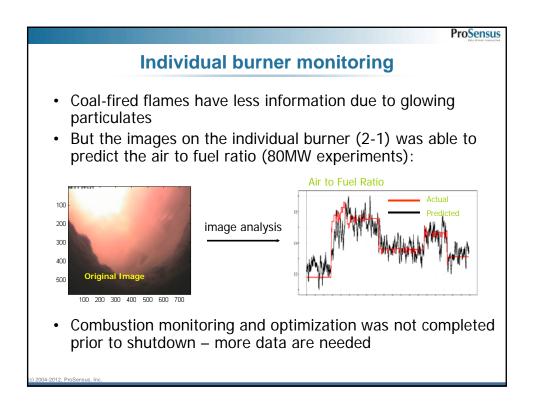


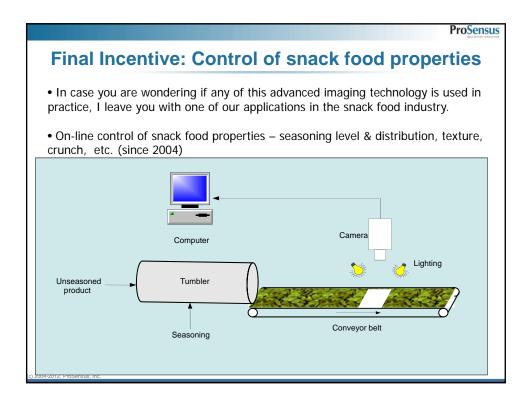


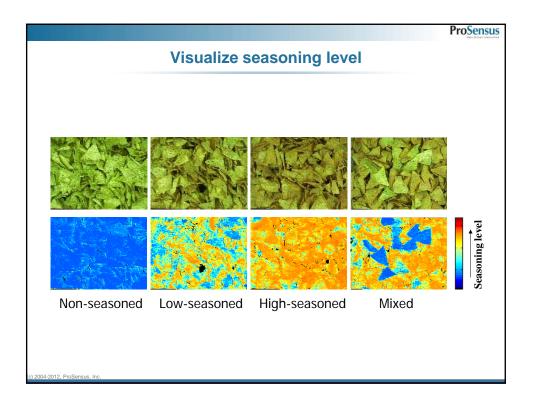


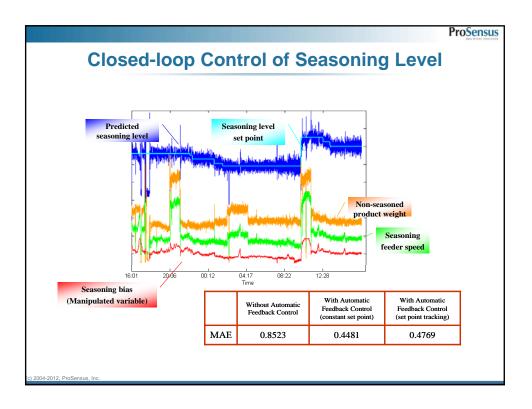


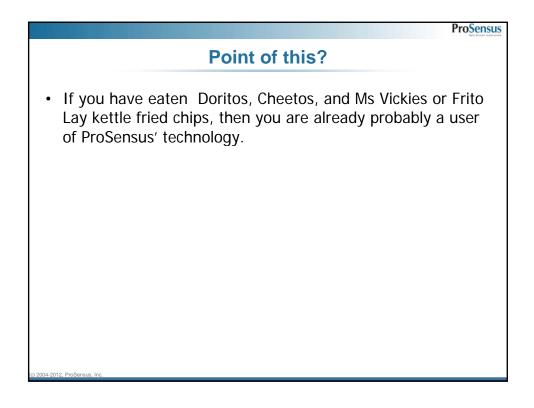


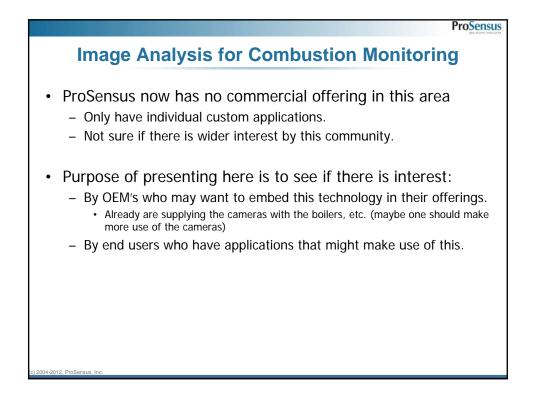


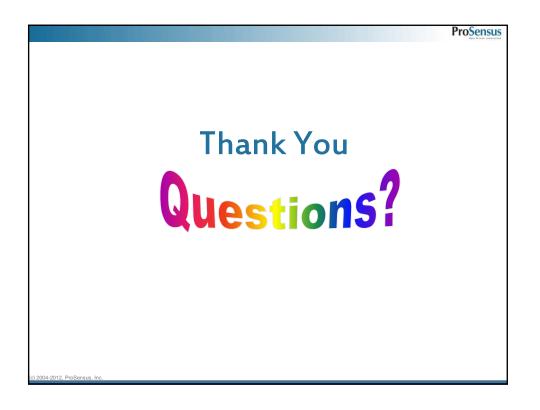












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