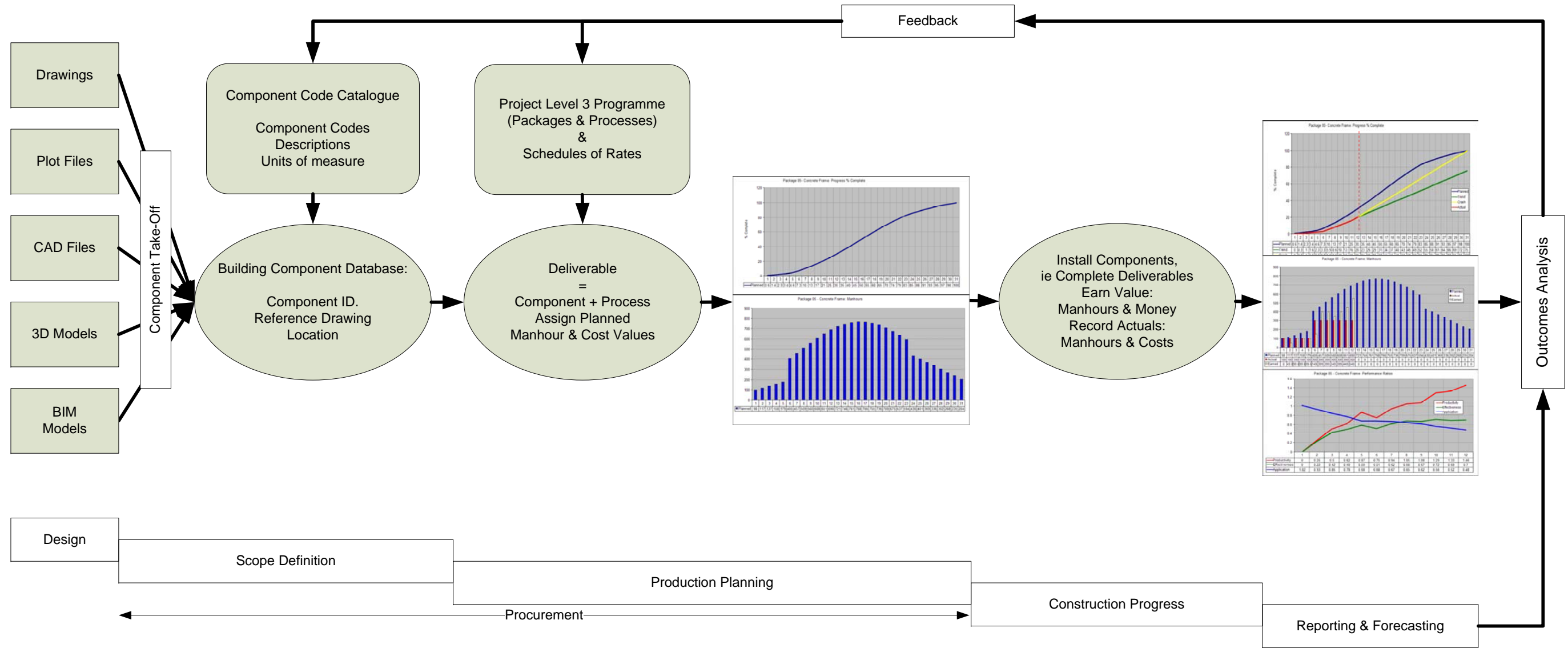


**Predictability in a Systematic Production Environment**

- Specialist individuals and firms carrying out standardised operations on standard components.
- Focus on physical outputs from production processes.
- Key Variables: Total scope (Physical Outputs) & Progress (Outputs completed to date)
- Capture data at the “atomic” level: individual operations and components.
- Production data: specify it; gather it, organise it, analyse it, store it, use it, DON'T WASTE IT.



Design and Scope Definition	Production Planning	Construction Progress	Reporting & Forecasting
<ul style="list-style-type: none"> <li>• Works with all sources of design information, not just models - no problems of technology, PI liability, data coordination etc.)</li> <li>• Component take-off process similar to traditional Bill preparation – no new skills required, just better use of IT</li> <li>• Detailed scope of work stated in explicit terms, standard across the firm's projects</li> <li>• Transparent procurement – all scope is easily and systematically verifiable</li> </ul>	<ul style="list-style-type: none"> <li>• Properly specified and calculated schedule and budget targets from the beginning.</li> <li>• Unified project control tools: scope definition, quantity surveying, estimating, cost control, planning, progress measurement, change control all using the same base data; unified not just integrated.</li> <li>• Current rates based on actual historical outcomes, not simply earlier rates factored up.</li> <li>• Use Earned Value and base the system mainly on manhours – much more immediate and responsive than cost.</li> </ul>	<ul style="list-style-type: none"> <li>• Monitor and record status methodically, in detail, component by component.</li> <li>• Gather all key performance information daily if possible. Don't waste data.</li> <li>• Record actual daily manhour usage by team / gang</li> </ul>	<ul style="list-style-type: none"> <li>• Gather facts / data, not opinions; no subjective estimates, or guesswork.</li> <li>• Enable data to be aggregated and analysed in different ways, by different functions at different organisational levels.</li> <li>• Greatly increased visibility and improved corporate governance.</li> </ul>

**The C3 Insight™ Production Management Approach**