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http://blog.sina.com.cn/lotusbaob



## eM-Plant 3D and v5.5 介紹

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# eM-Plant 3D 操作說明





## eM-Plant 5.5 開機畫面

功能選項

圖示工具列

class物件模板

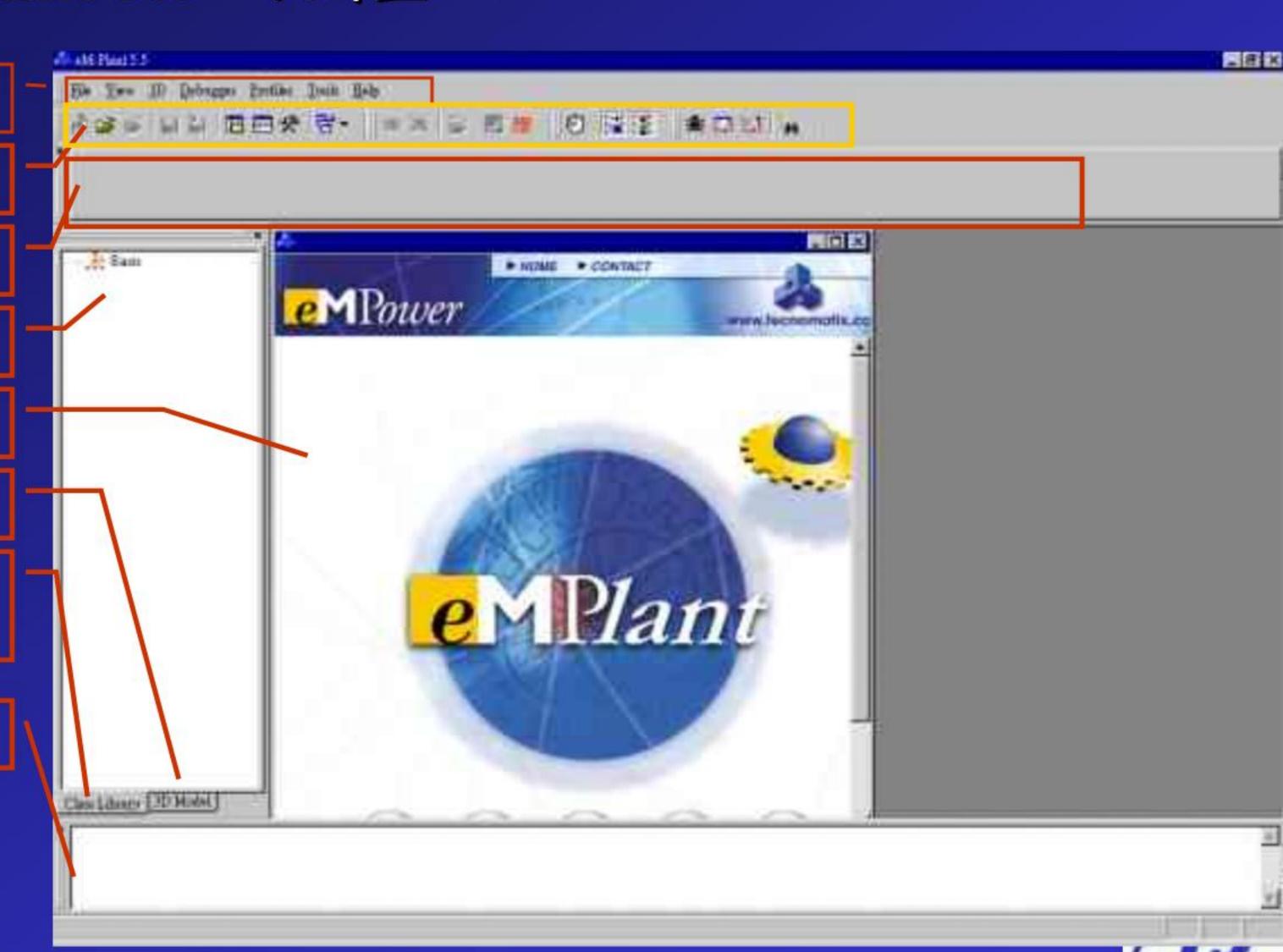
資料樹狀表

訊息欄

3D模型分類頁

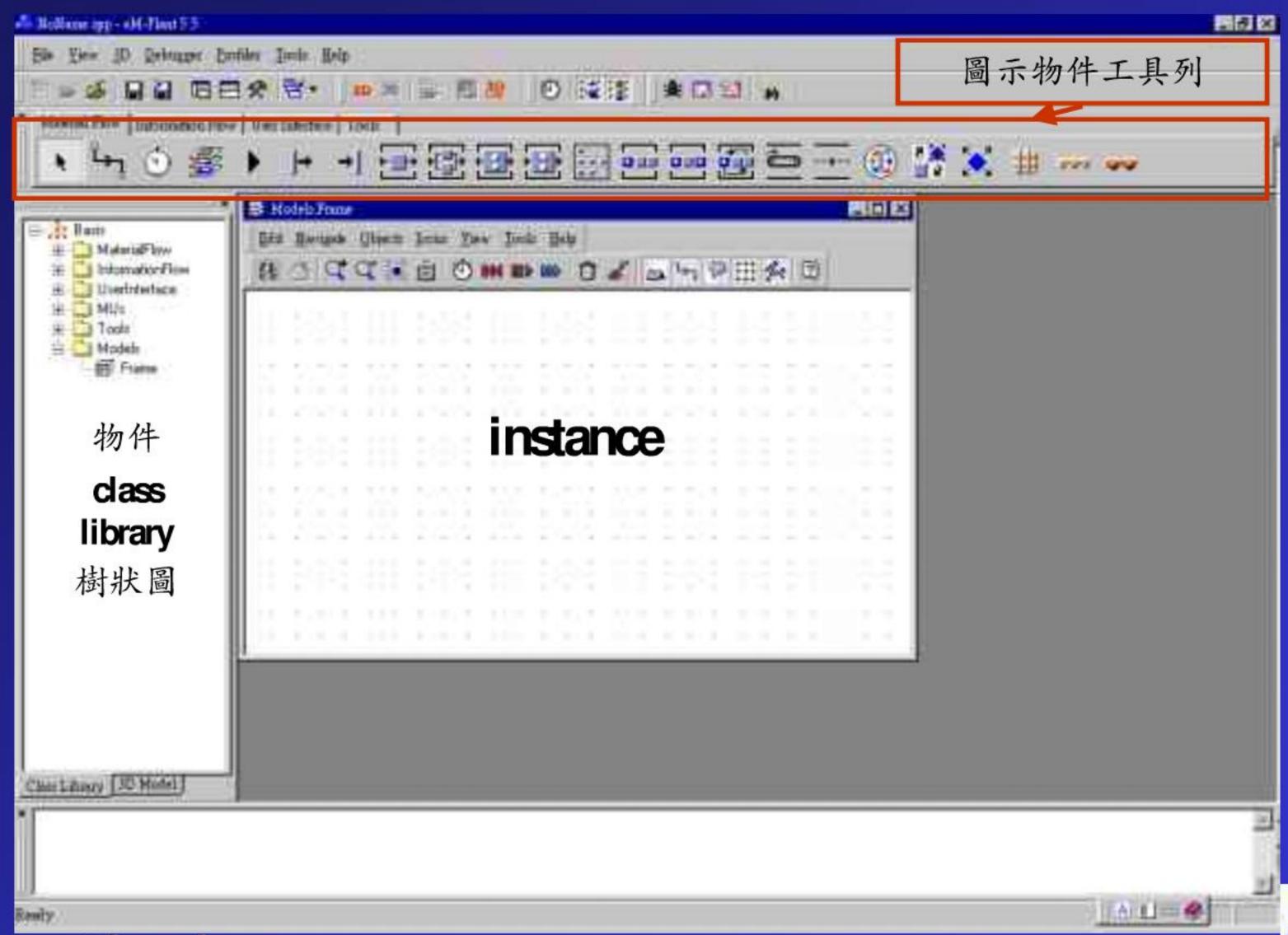
物件class library 分類頁

console



# 这很特徵

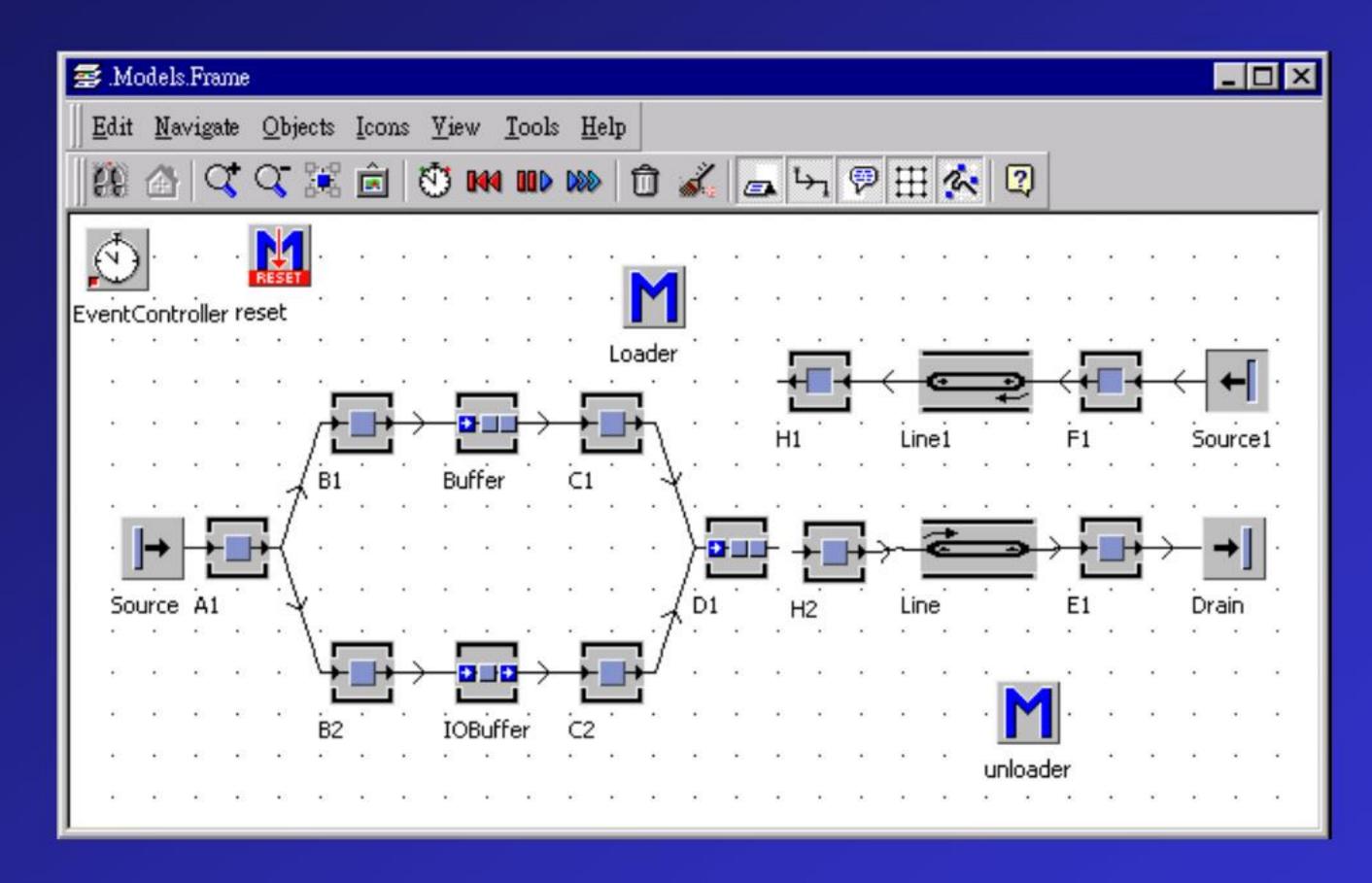
## 建立新檔







## 建立新Model

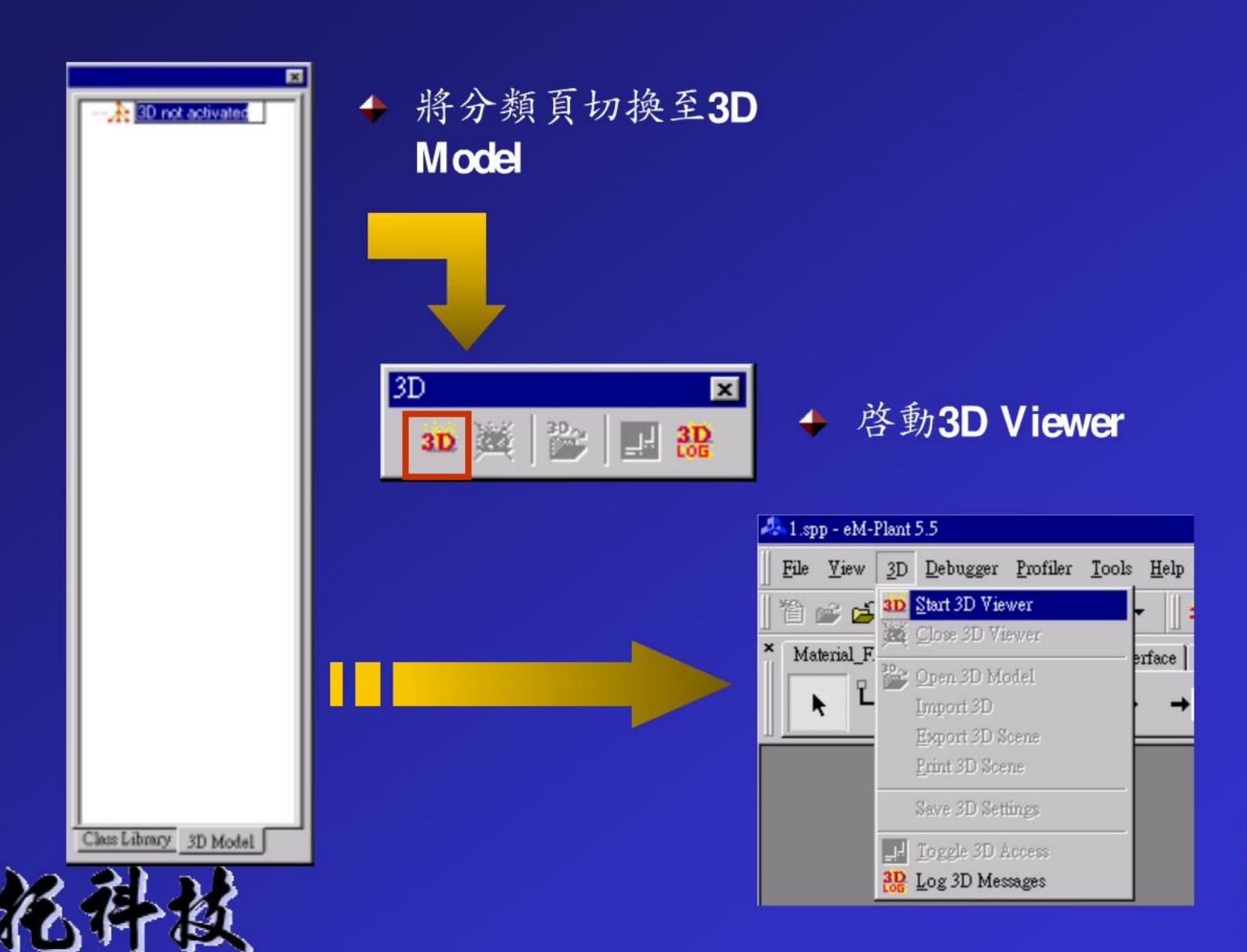


◆ 建立一個有method的模型等等,來檢測3D的模型是 否正確





## eM-Plant 3D 轉換方法



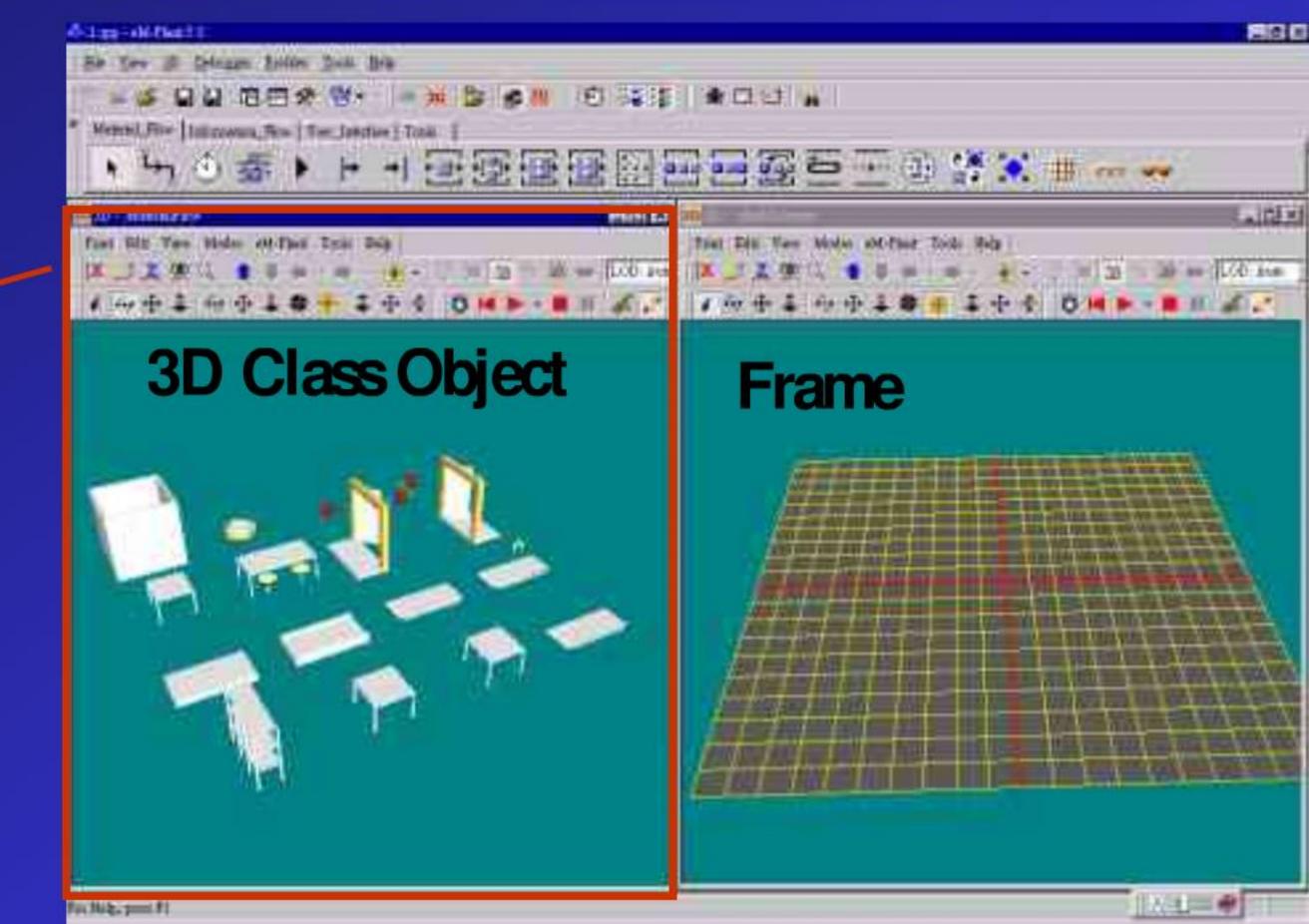


### 3D Viewer

◆ 啓動3D Viewer 後,會出現一個 訊息一個 訊息持使用初 者設定的模型, 始設定的模型, 必出現3D Viewer

3D Viewer





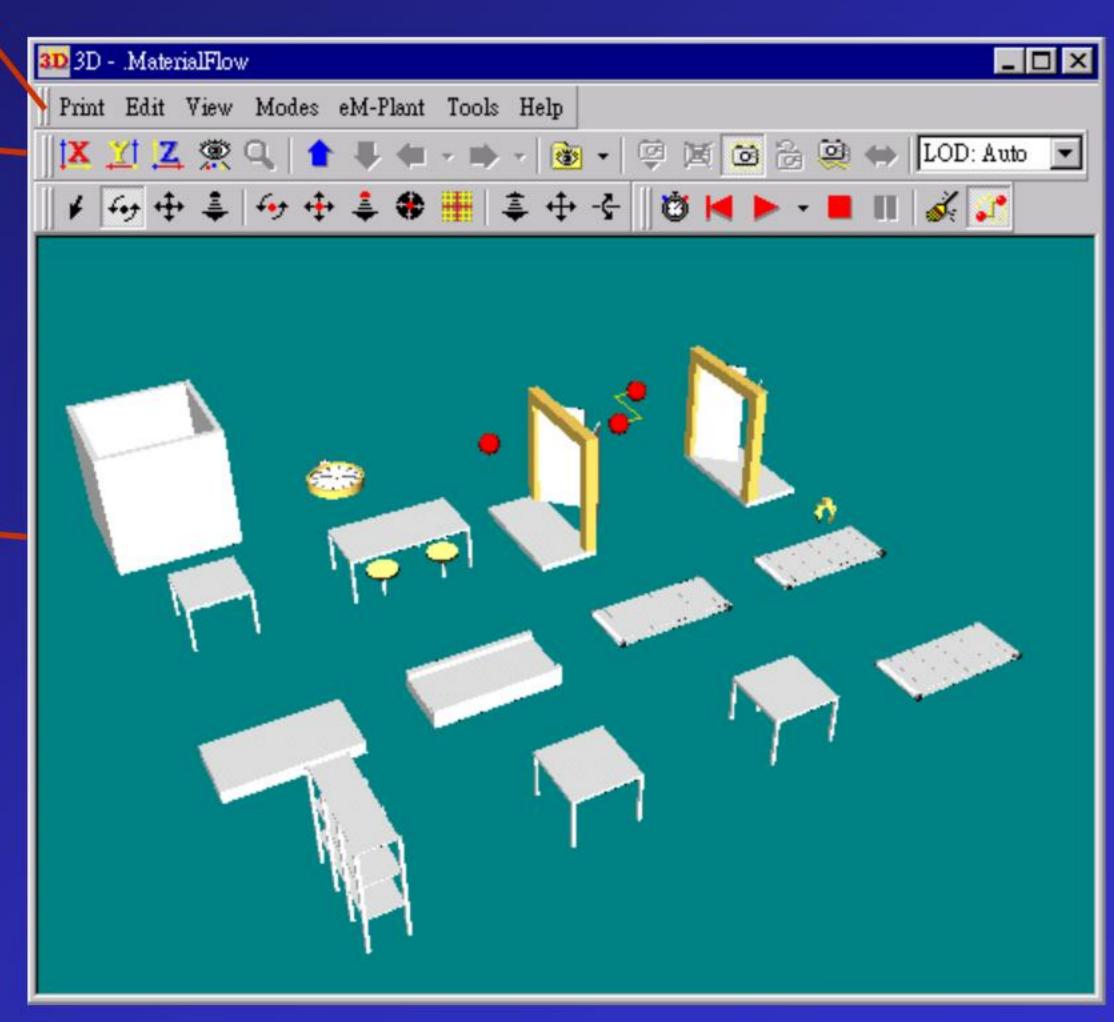


## 3D Viewer 功能介紹

Menu bar

圖形工具列

視窗

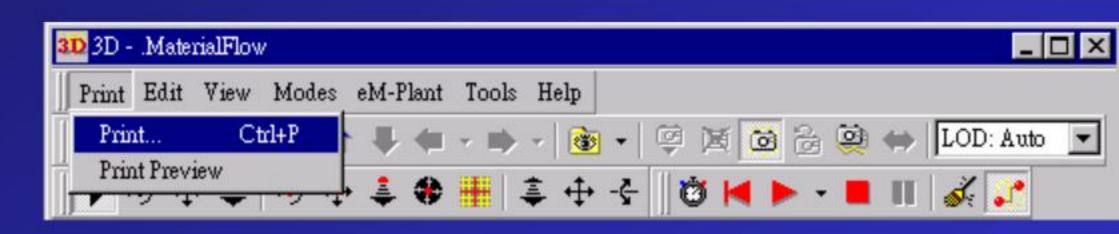


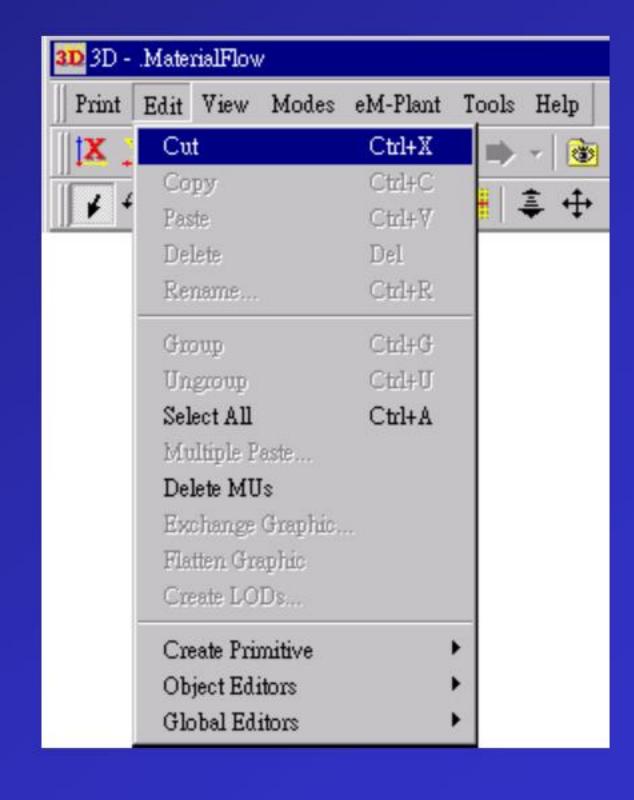




### Menu bar(1)

- ◆ Print列印
  - Print列印 Ctrl+P
  - Print Preview預覽列印
- **◆ Edit編輯** 
  - Cut 剪下
  - Copy 複製
  - Paste 貼上
  - Delete 删除
  - Rename 修改名稱





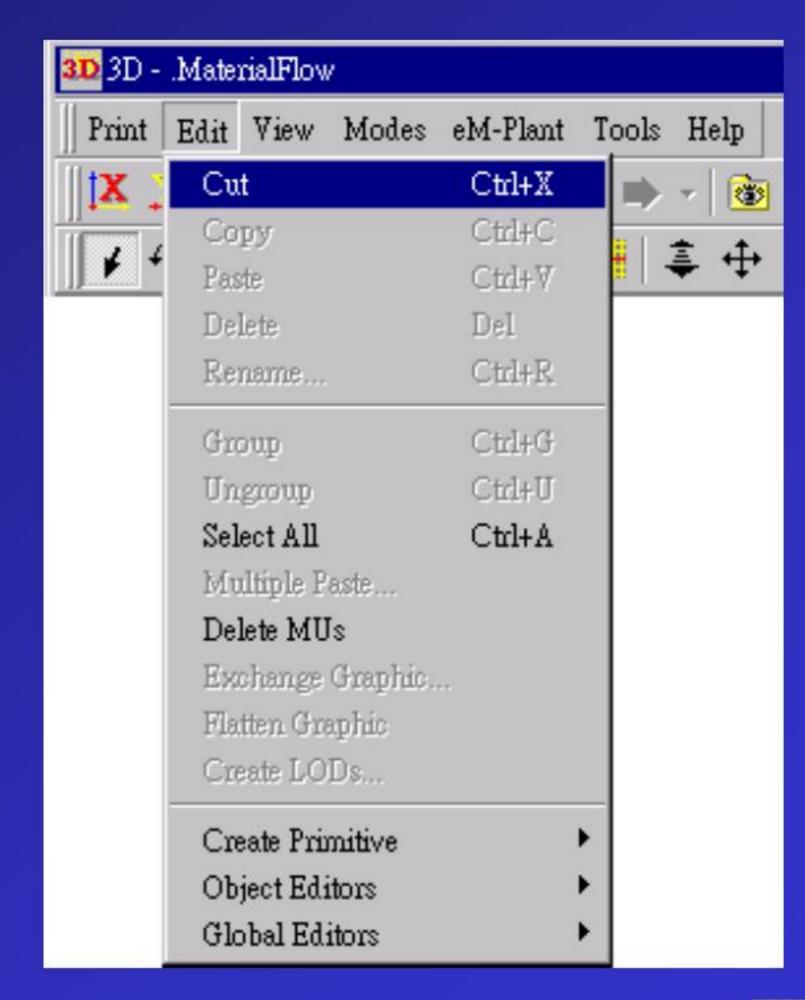




### Menu bar(2)

### **◆ Edit編輯**

- Group群組
- Ungroup解除群組
- Select All全選
- Multiple Paste .. 多重貼上
- Delete Mus删除move units
- Exchange Graphic... 圖形交換
- Flatten Graphic圖形消除
- Create LODs建立詳細層級
- Create Primitive建立幾何圖形
- Object Editors物件編輯
- Global Editors總體編輯



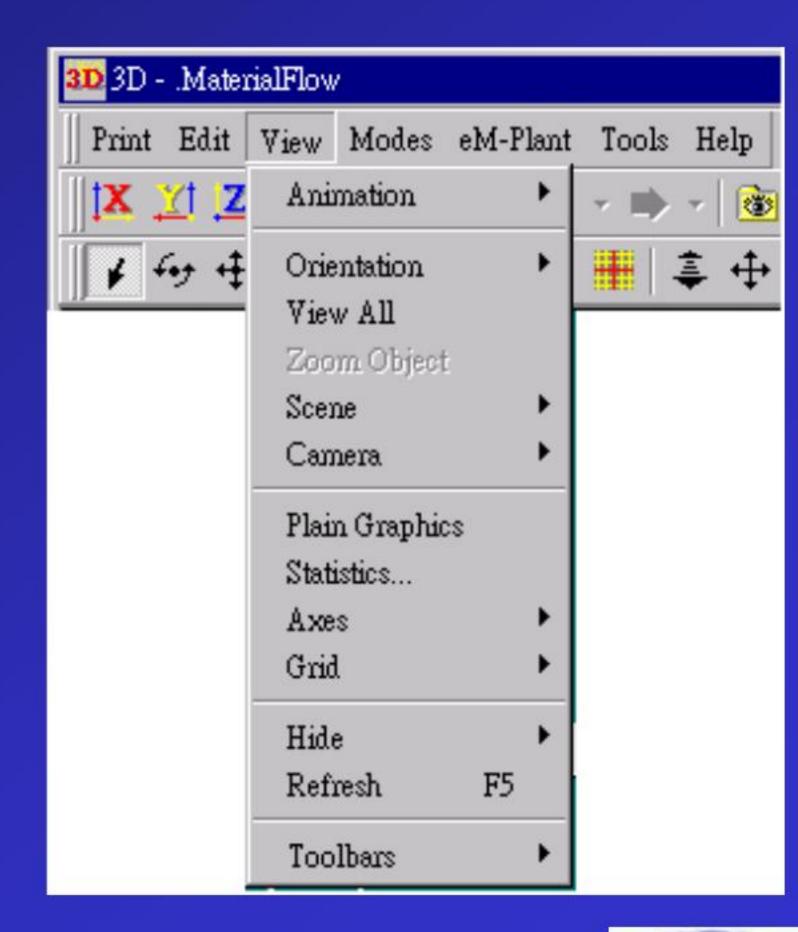




### View

#### View

- Animation動畫開關
- Orientation方位
- View All全視景
- Zoom Object物件縮放
- Scene视景
- Camera
- Plain Graphics簡單圖形
- Statistics...物件統計
- Axes軸向設定
- Grid格位設定
- Hide物件隱藏
- Refresh更新
- ToolBars工具列之啟動設定



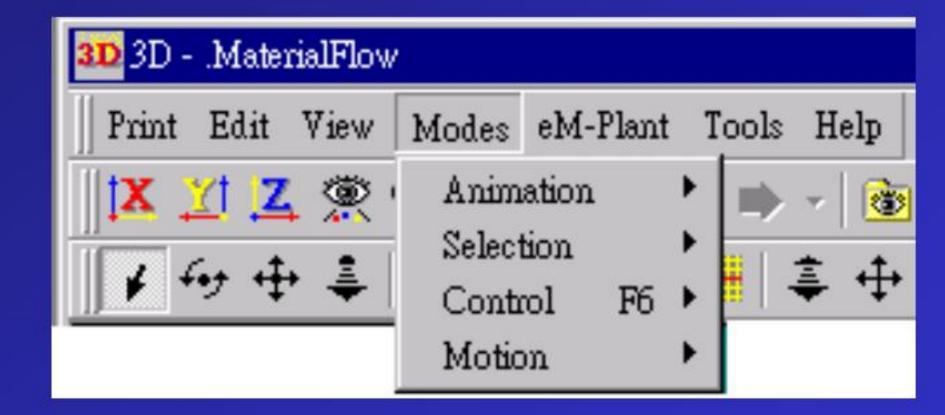




### Modes

#### Modes

- Animation動畫設定
- Selection選擇方式,如選群 組物件或個別物件
- Control控制
- Motion物件急事景之移動、轉動等方法







### eM-Plant

#### eM-Plant

 $-2D \rightarrow 3D$ 

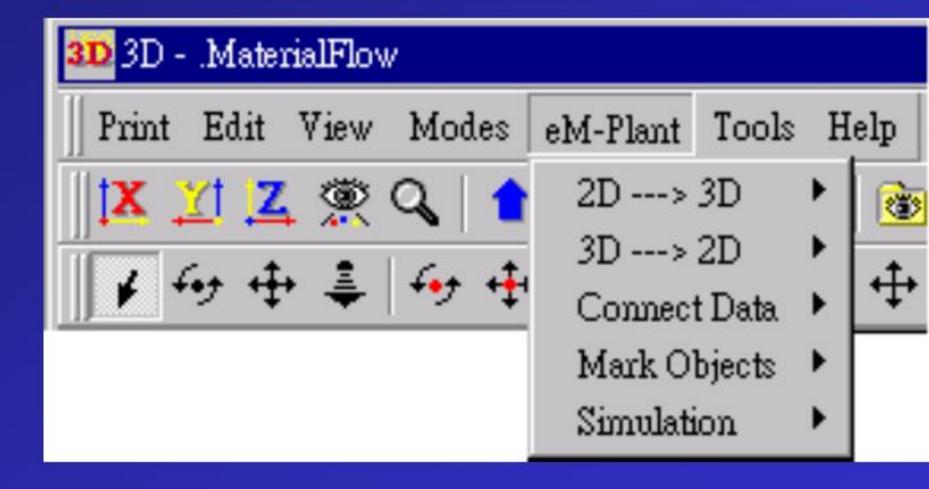
將2D模型轉換成3D模型

 $-3D \rightarrow 2D$ 

將3D模型轉換成2D模型

- Connect Data 資料連結,如2D長度與3D長 度之連結,或位置之連結

- Mark Objects物件標記 是否對應2D之物件
- Simulation模擬控制



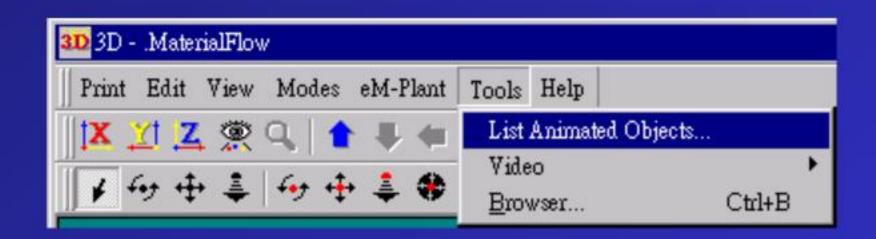




### **Tools**

#### **→** Tools

- List Animated Object列出動 畫物件
- Video影片之記錄與設定
- Browser所有3D物件之瀏覽







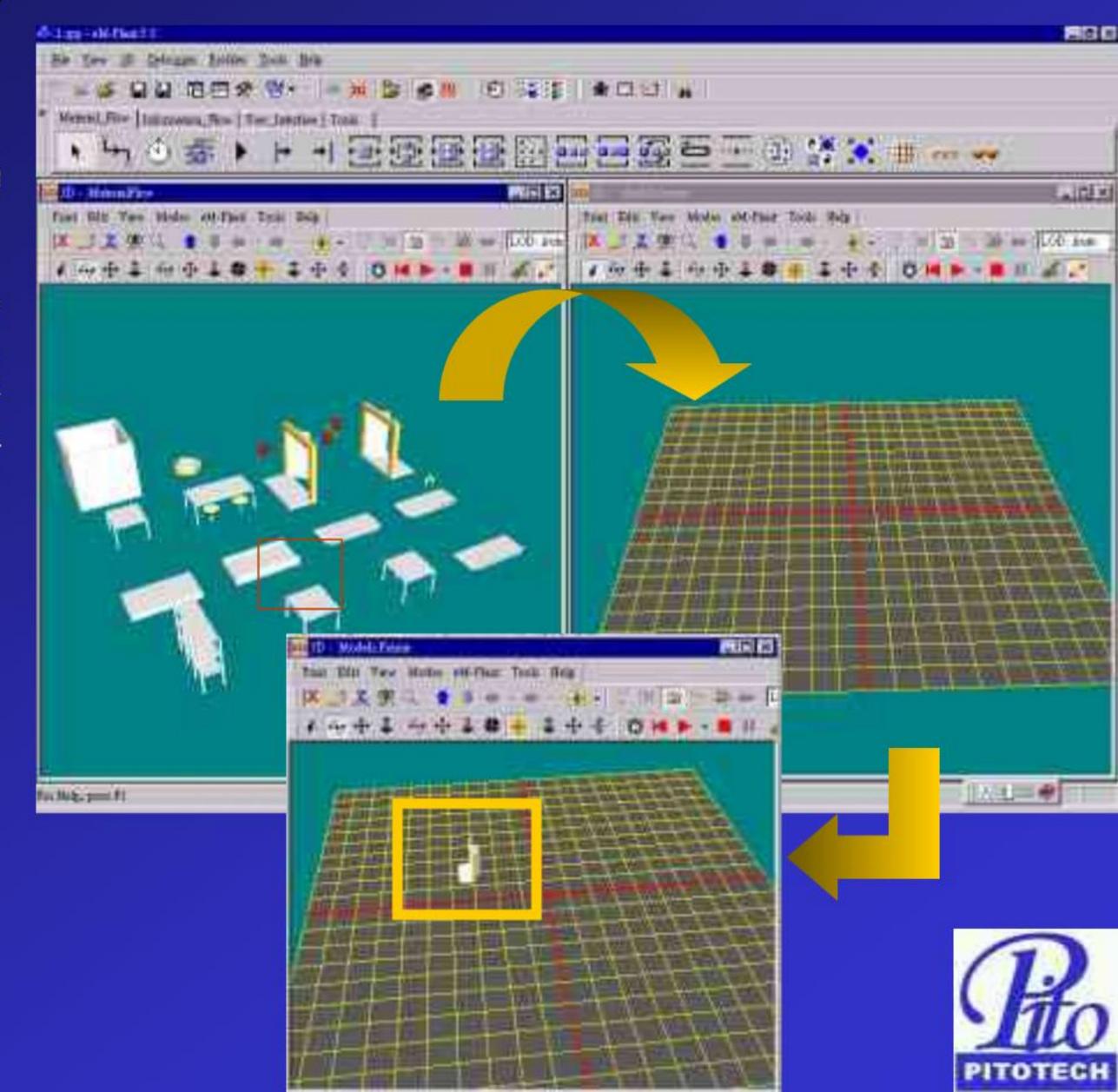
## 方法一:3D→2D





## 3D之使用(1)

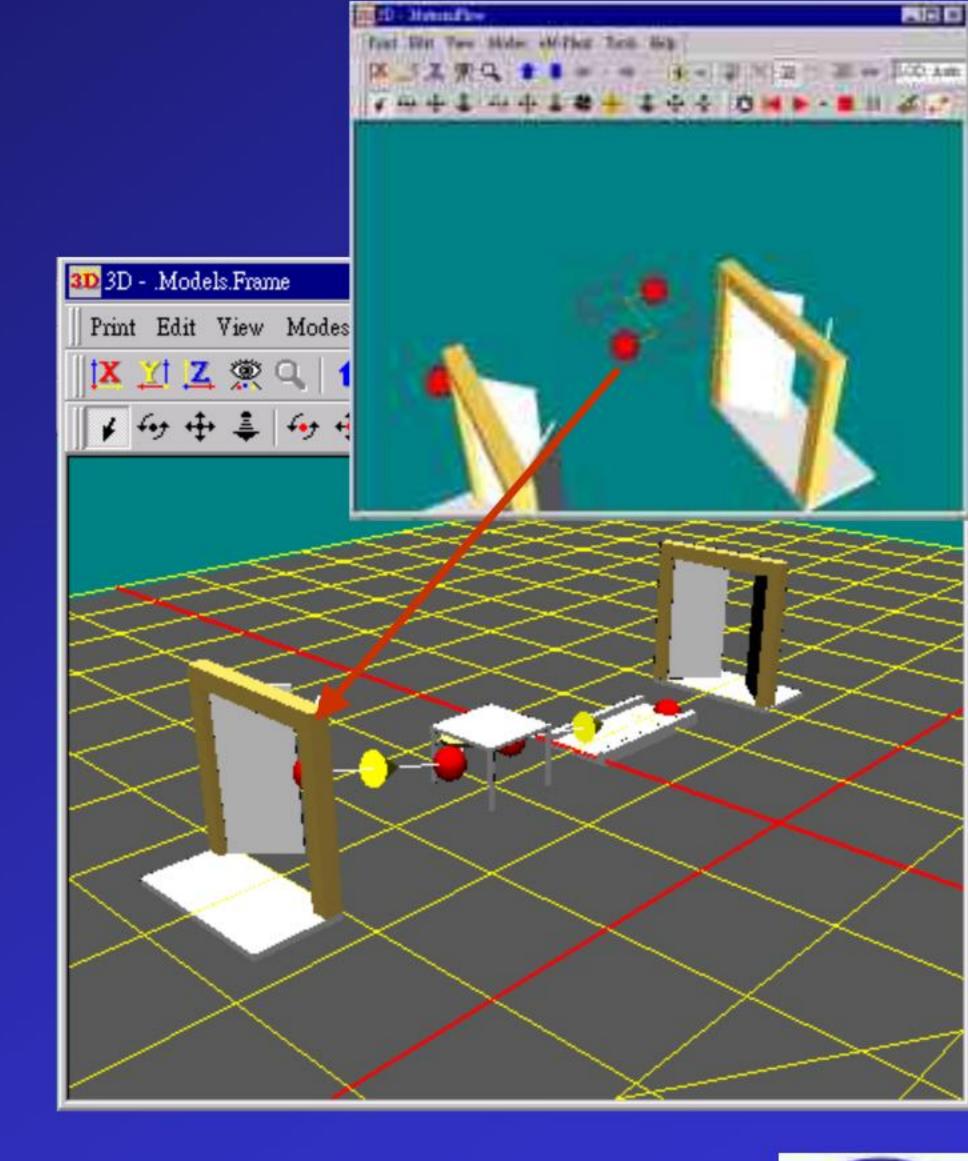
- ◆ 運用拖拉方式 建立模型



# 这形態

## 3D之使用(2)

◆ 將source、singleproc、 line以及drain物件放置 frame中,放置完後點 選connector,拖放置物 件上,就會出現連結情 形,再將另一端連到其 他物件上,就會連結起 來。



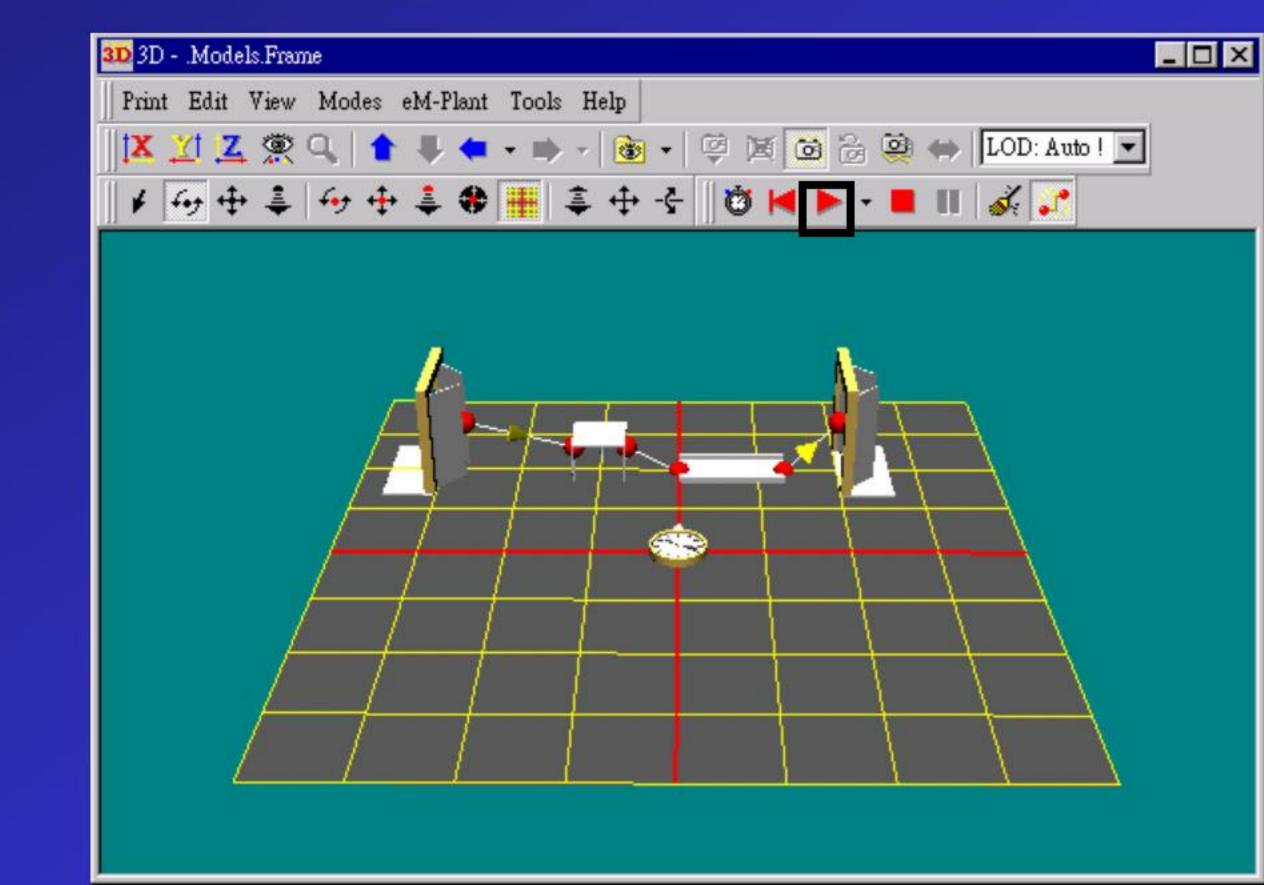




## 3D之使用(3)

◆將3D轉成2D,將會出現換 確認,完之後 啓動模擬





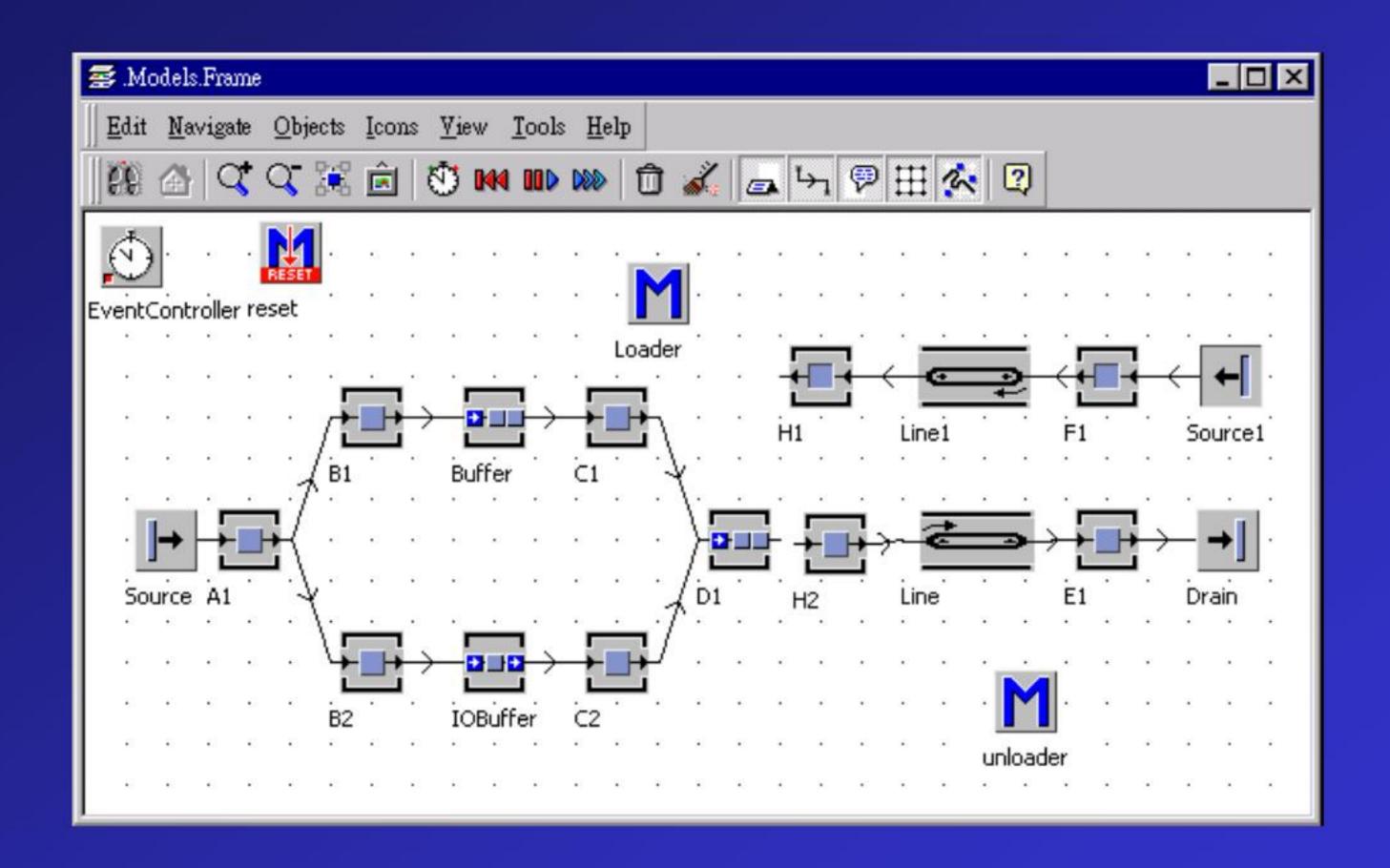
# 政化种数

# 方法二:2D →3D





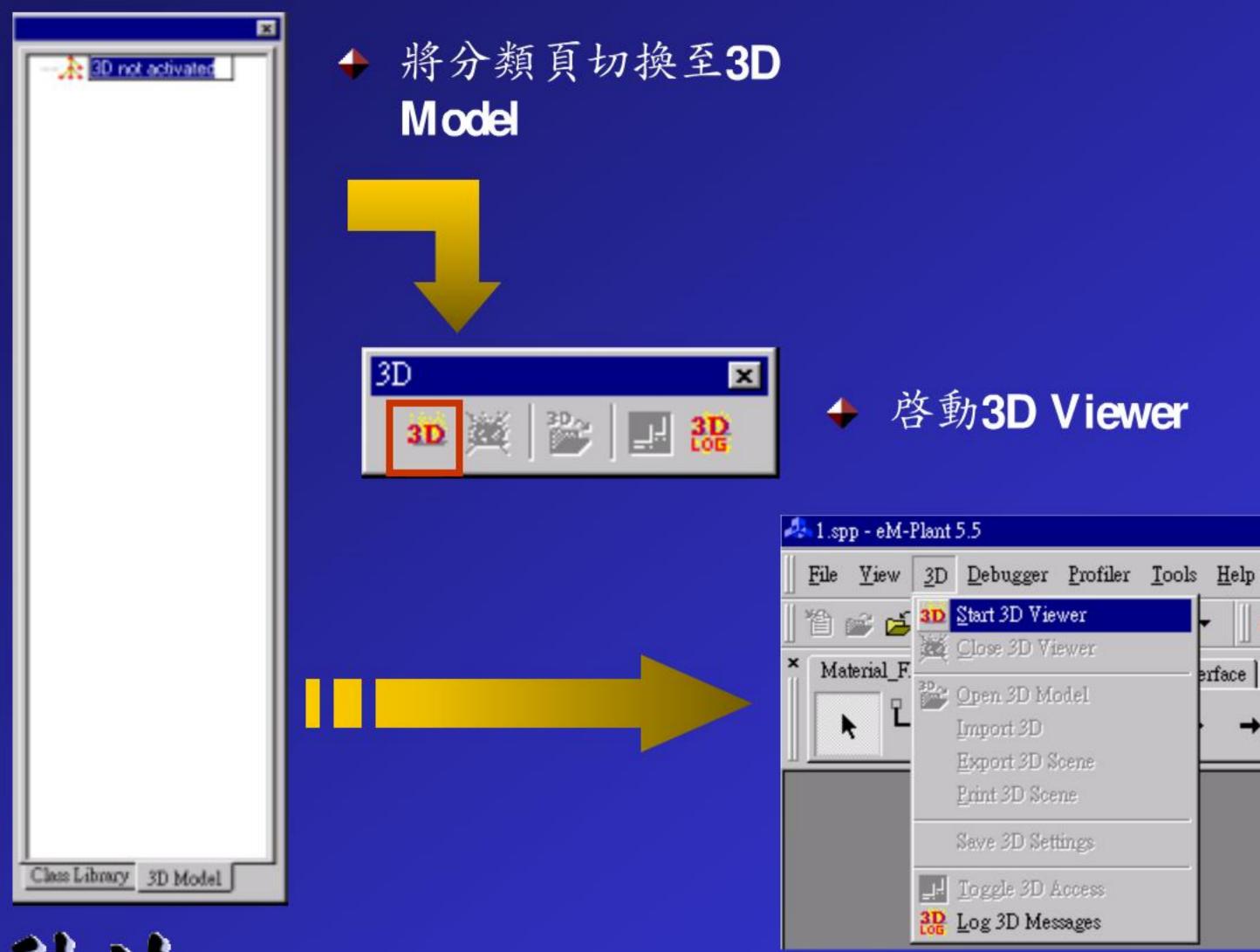
## 建構模型:







## 啓動3D Viewer



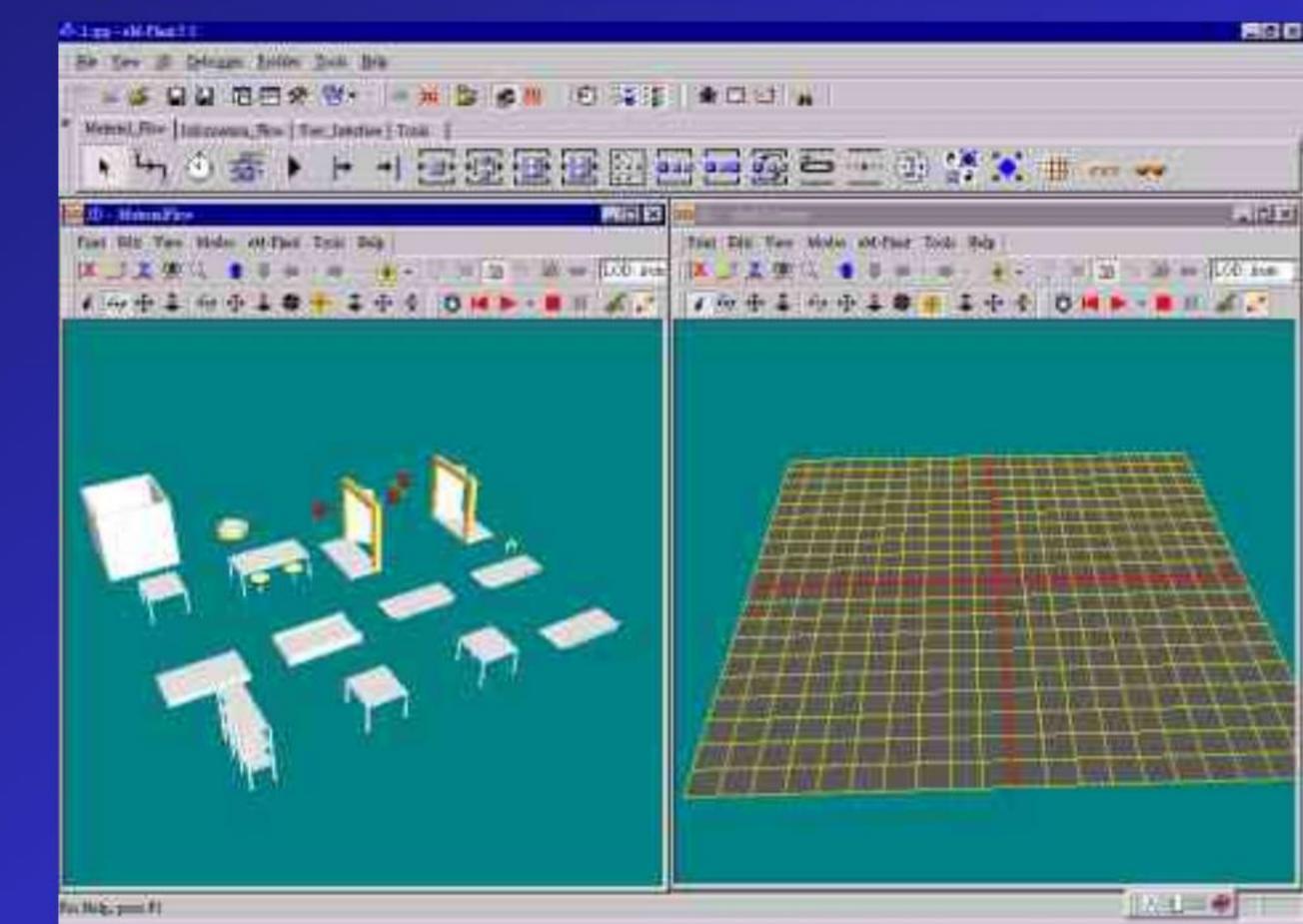




### 開啓3D Viewer

◆ 啓動3D Viewer 後,會出現一個 訊息一個 訊息持使用初 者設定的模型, 並出現3D Viewer

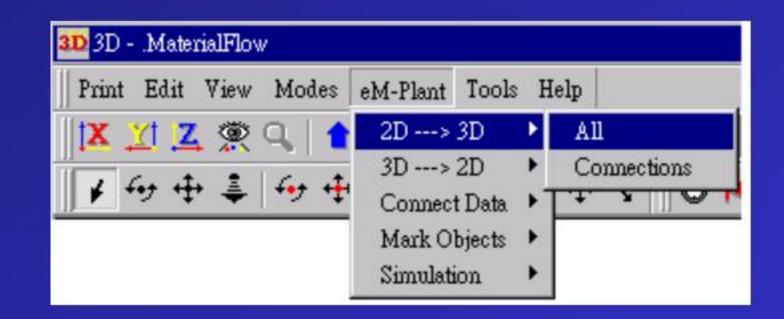




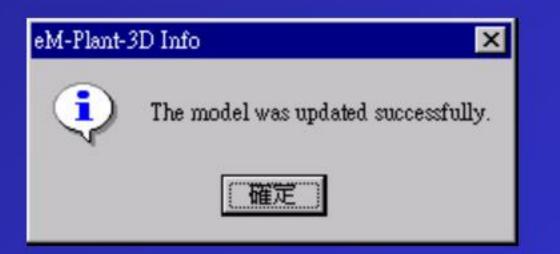


## 2D 轉換成3D

◆選擇eM-Plant > 2D → 3D > All



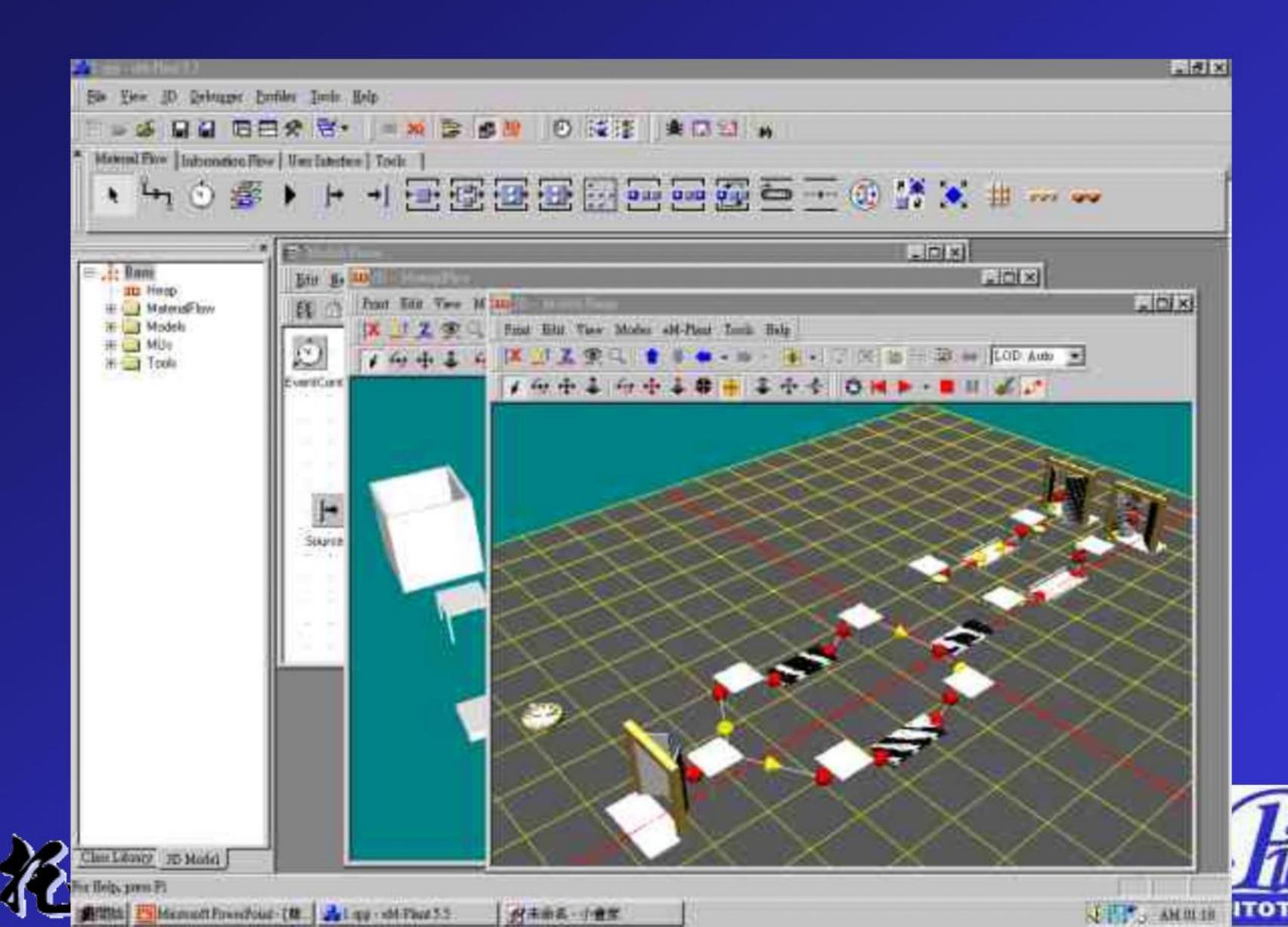
◆出現一個模型轉換成功



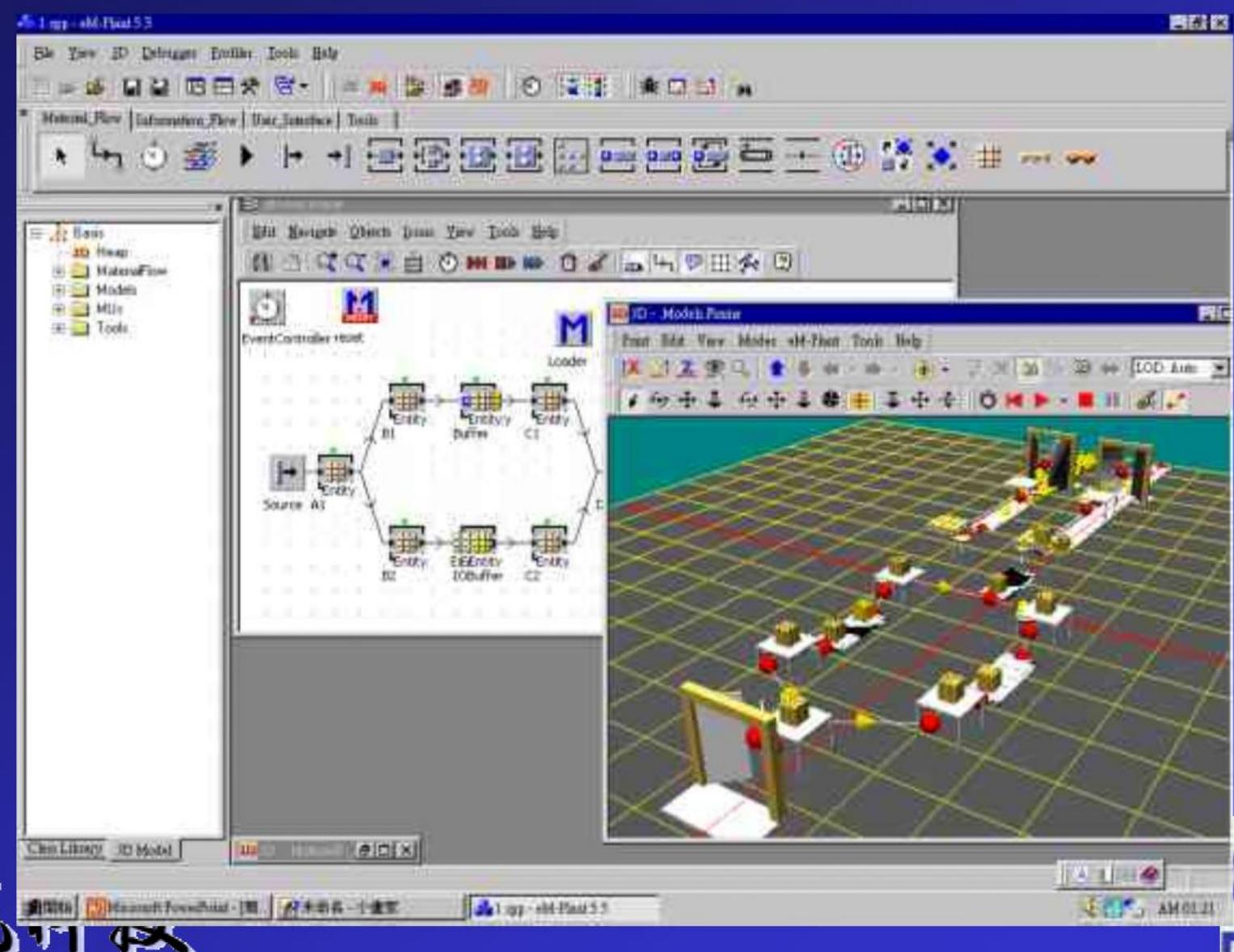




## 2D 轉換成3D

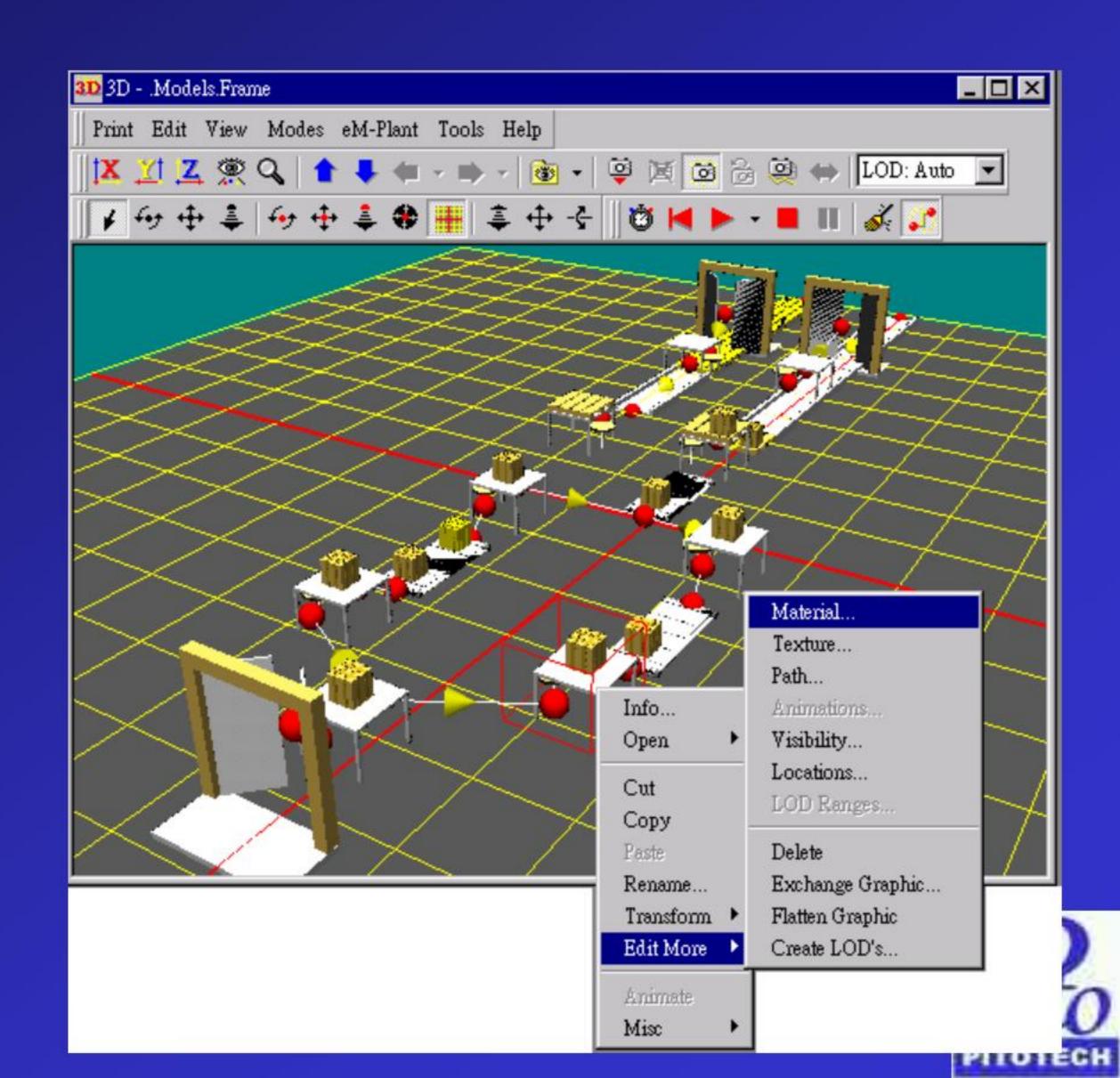


## 執行狀況





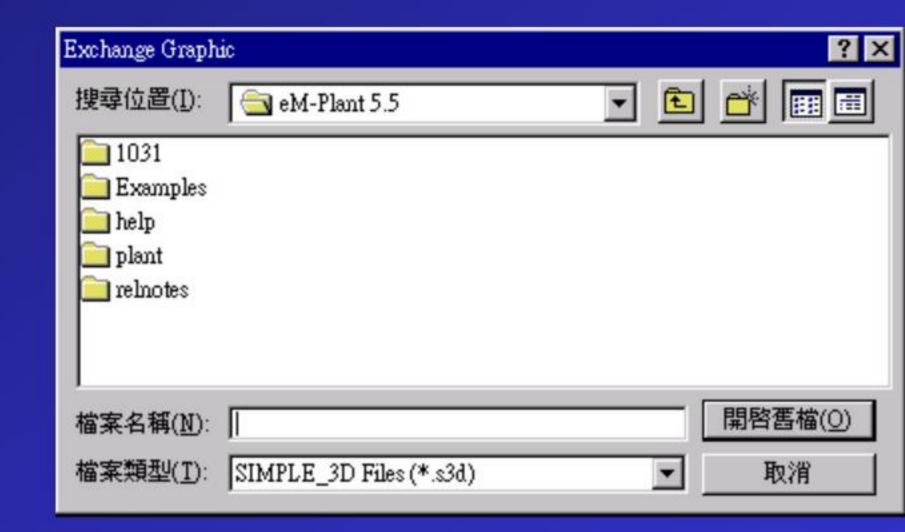
## 材質變更



# 成褐色

## 修改物件圖形

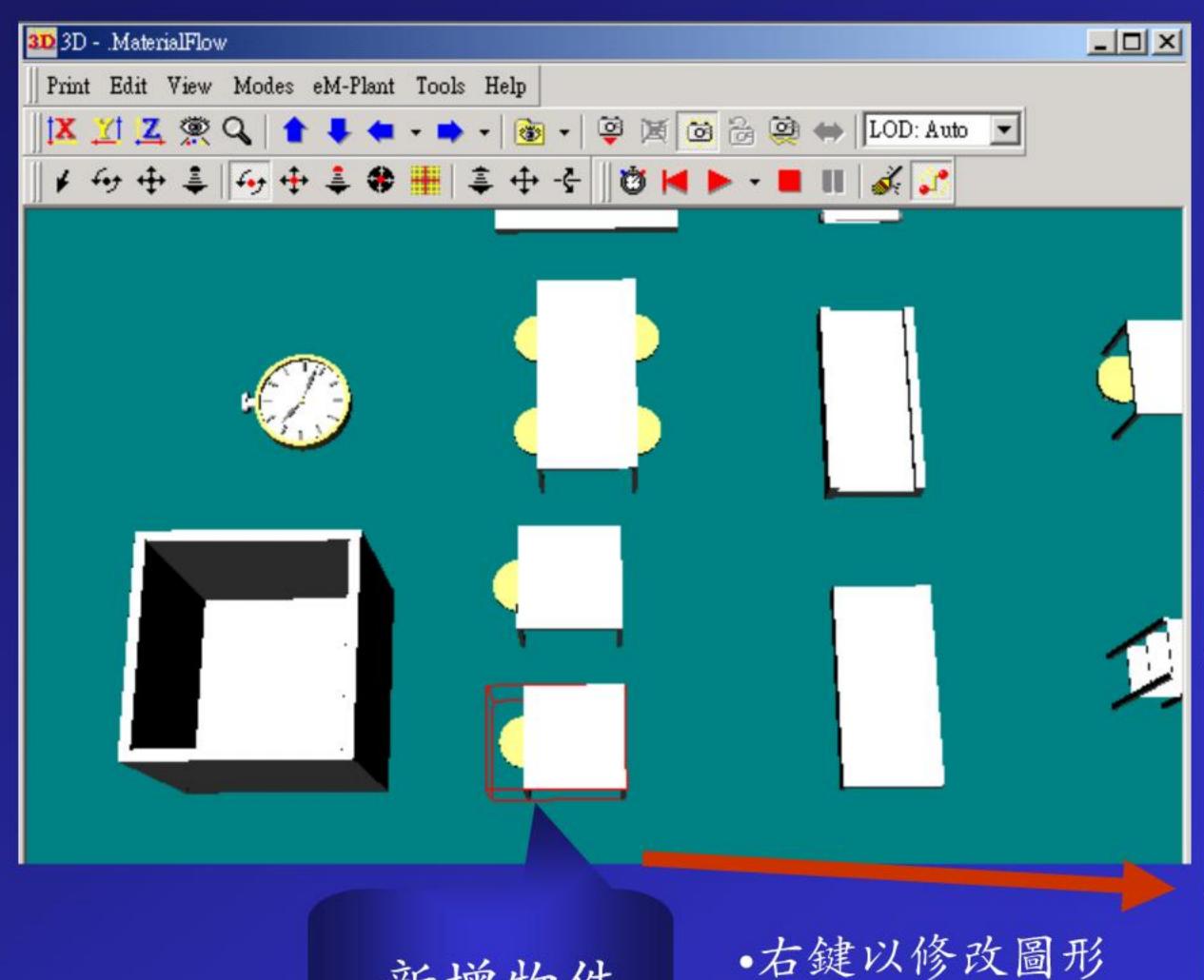
- ◆ 自行利用繪製功能繪製 物件外型
- ◆ 載入已經設計好的.s3d 檔







## 修改圖形(1)

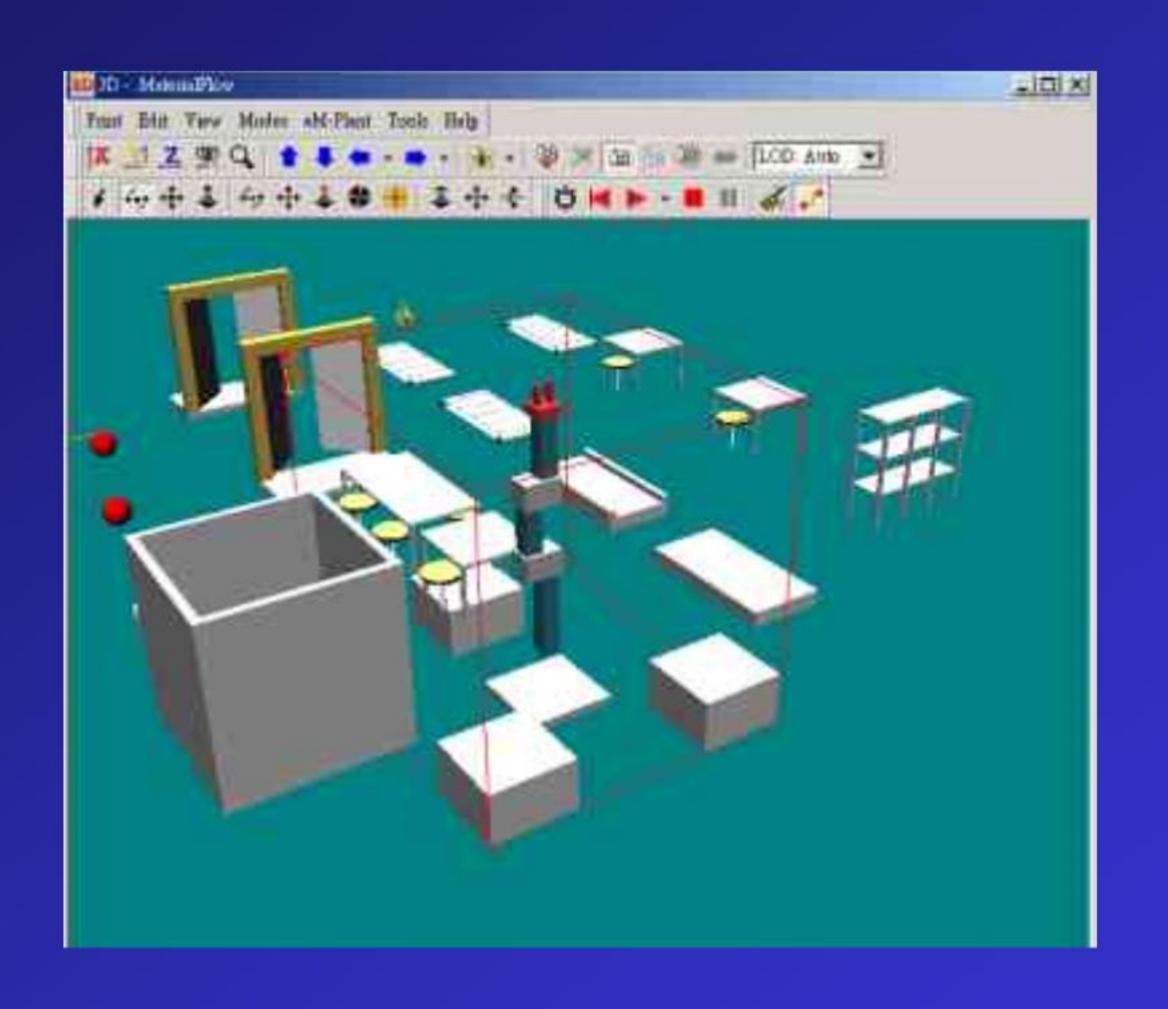


Material... Texture... Path... Info... Animations... Open Visibility... Locations... Cut LOD Ranges... Сору Paste Delete Exchange Graphic... Rename... Flatten Graphic Transform > Edit More Create LOD's... Animate Misc

•新增物件

戏粉料数

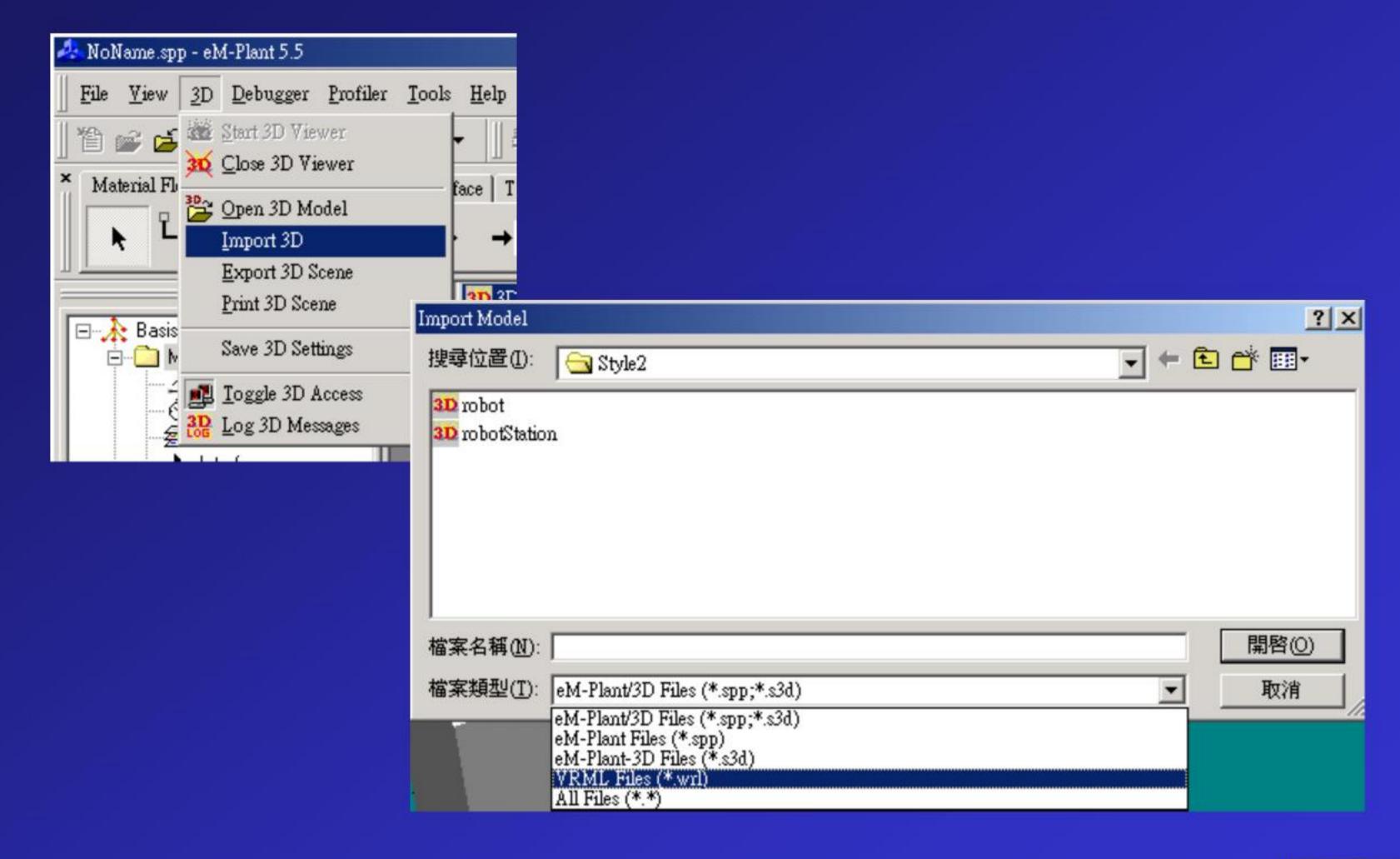
# 修改圖形(2)







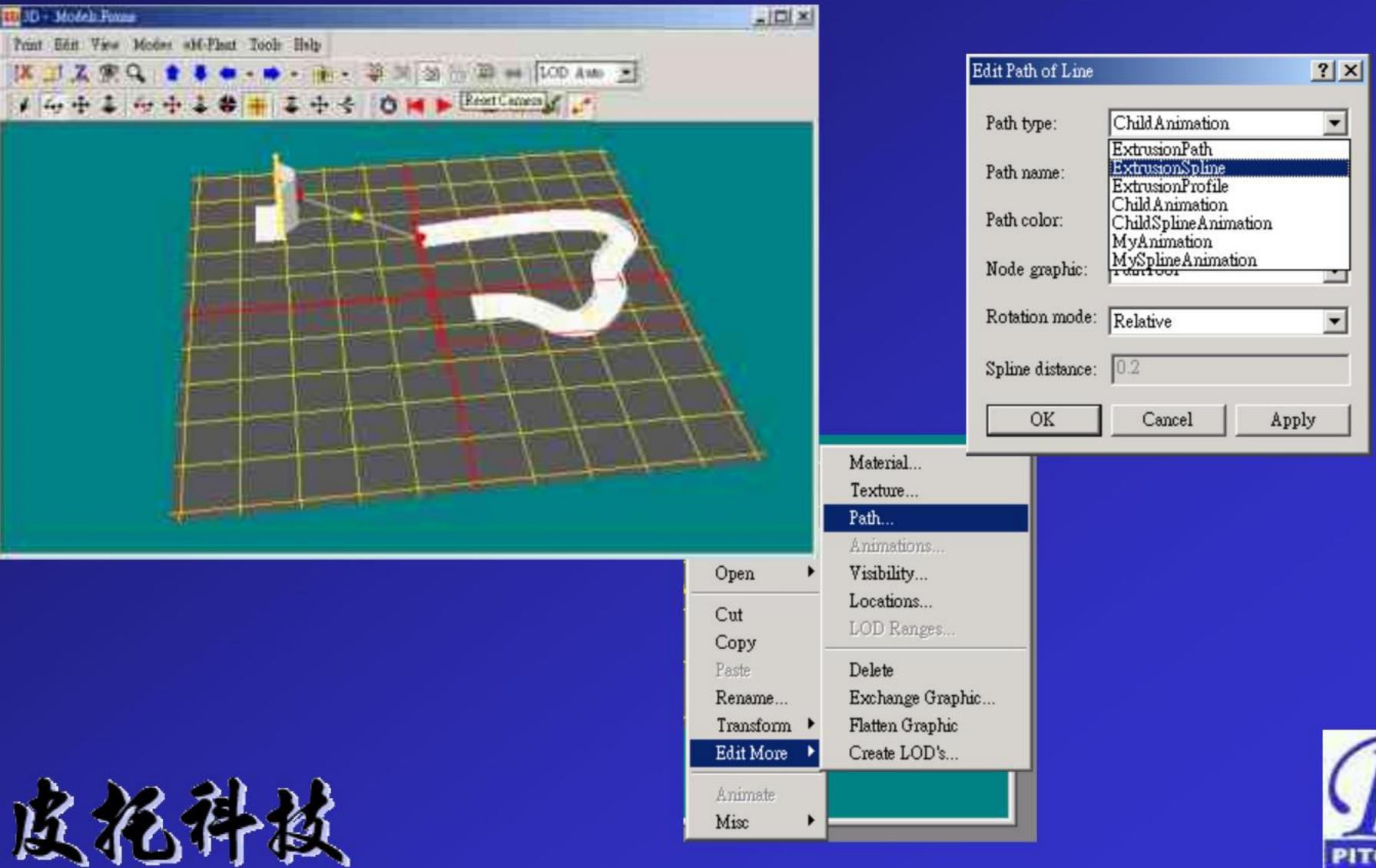
## Import 3D 物件







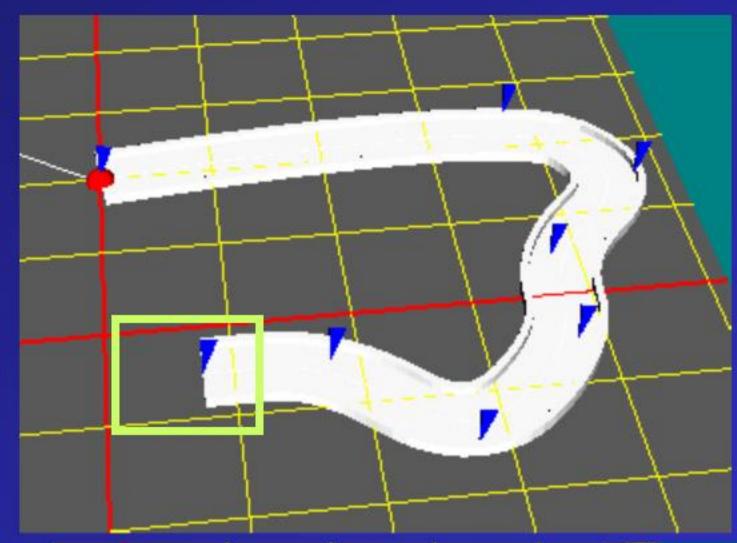
## 繪製splie物件





## 繪製splie 物件

Edit Path of Line		? ×
Path type:	ExtrusionSpline	•
Path name:	Default	v
Path color:		■▼
Node graphic:	PathTool	v
Rotation mode:	Relative	¥
Spline distance:	0.2	
OK	Cancel App	ly



→ 點選藍色3角錐,按住Ctrl及 滑鼠右鍵,並選擇點選路徑 即繪出line的spline形狀

