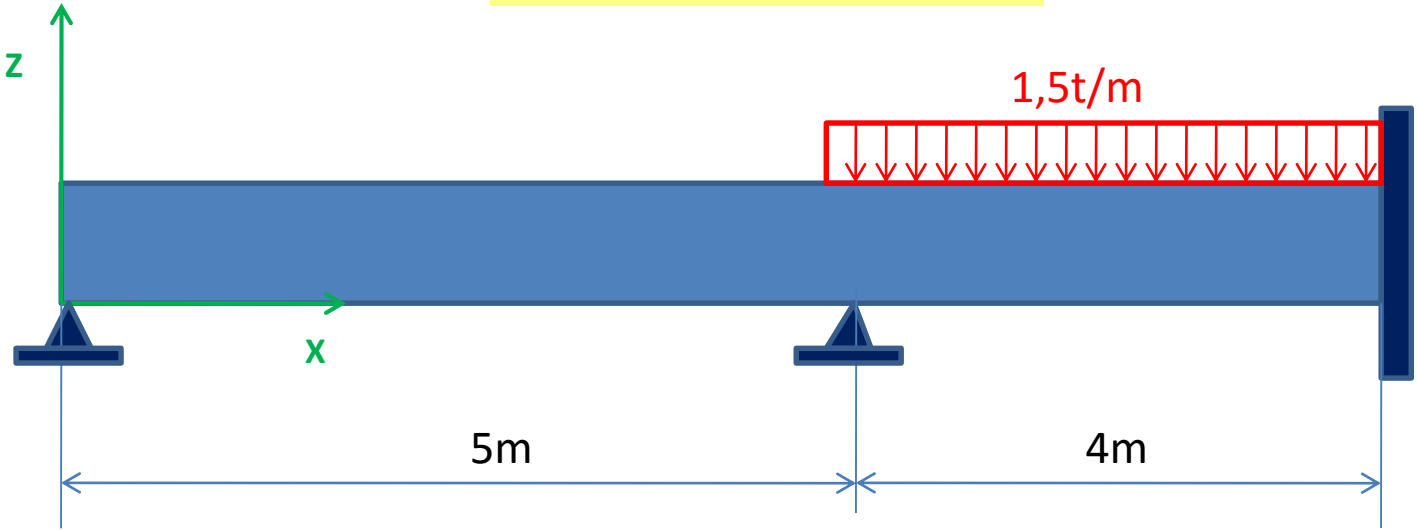
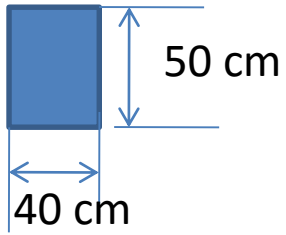
POUTRE EN BETON ARME



Section droite

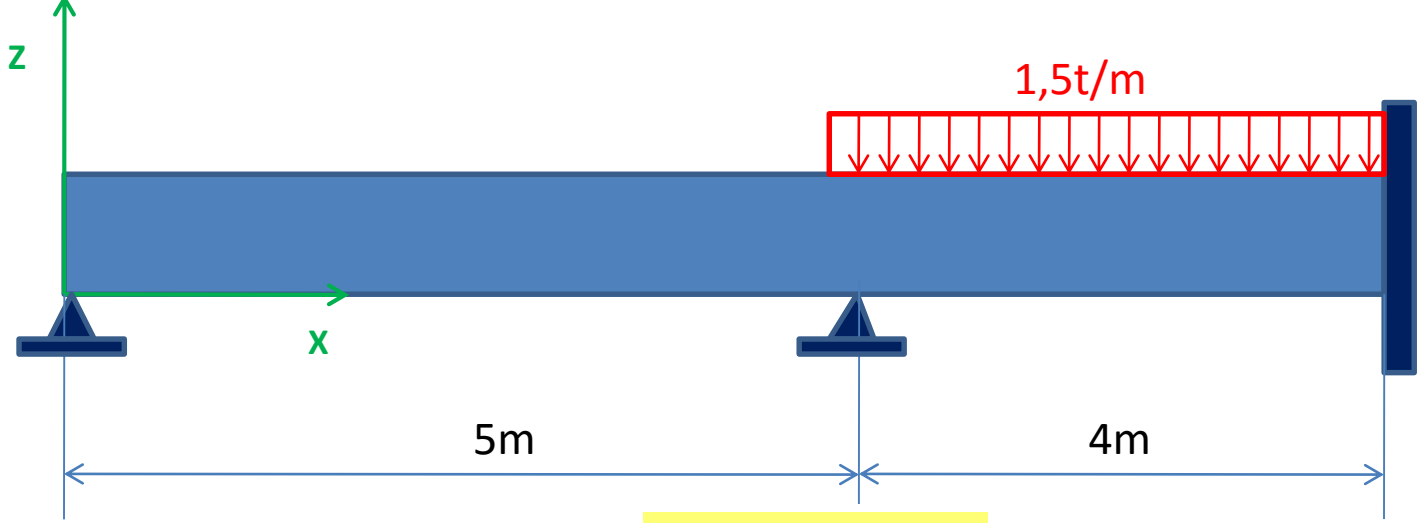


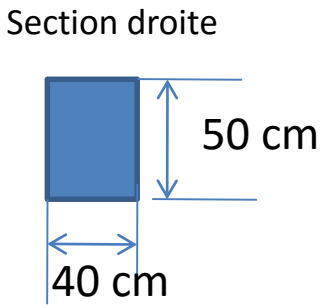
Matériau BA:

masse volumique: ρ=25KN/m^3

Module de Young: E=3 10^4 Mpa

Coefficient de Poisson: ν=0,2





Matériau BA:

masse volumique: ρ=25KN/m^3

Module de Young: E=3 10^4 Mpa

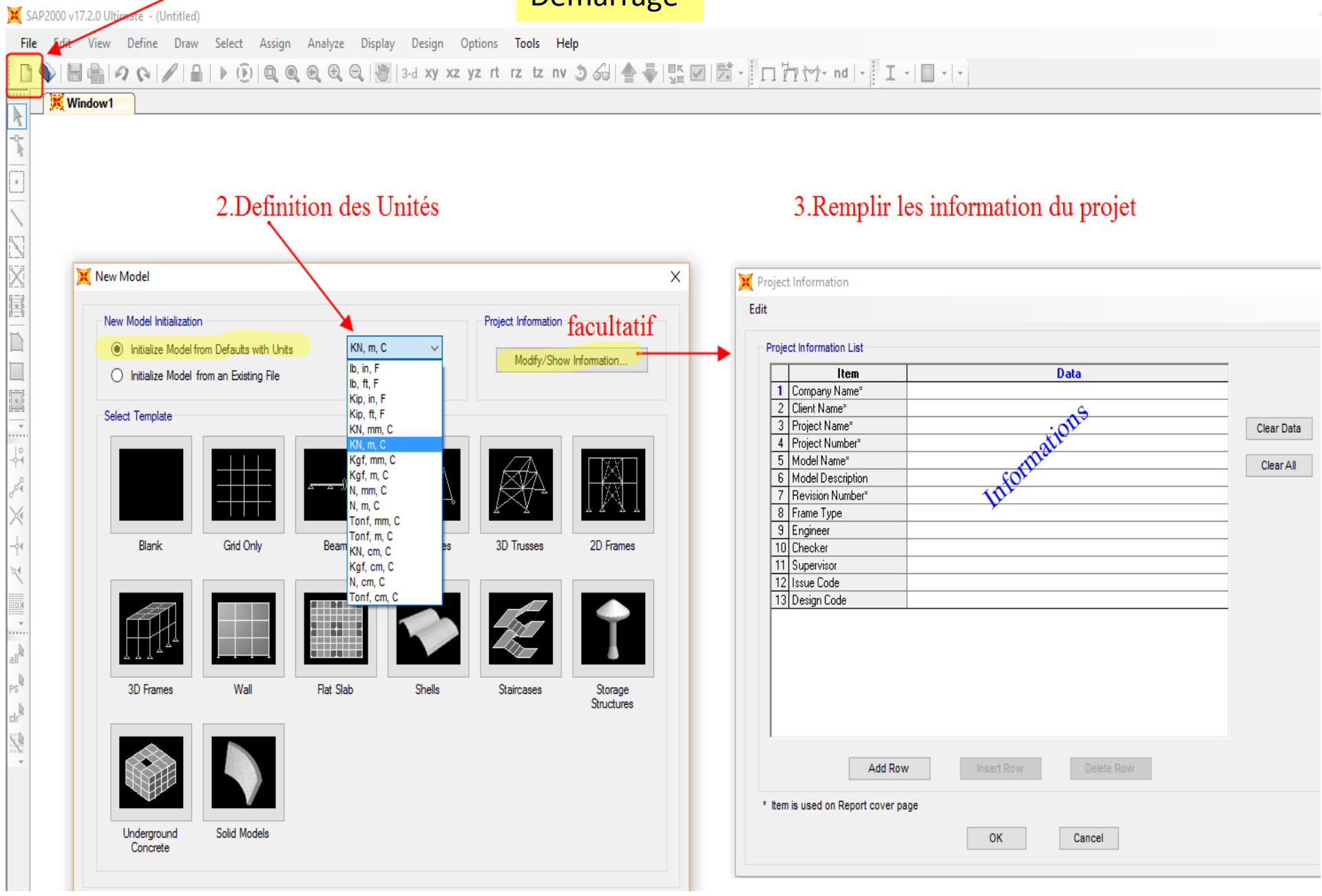
Coefficient de Poisson: ν=0,2

ETAPES A SUIVRE

1. Définition des lignes de construction
2. Définition des matériaux : Béton, Acier…..
3. Définition des sections: rectangulaire, $\mathbf{I}$, $\mathbf{T}$……
4. Dessin des poteaux et poutres
5. Assignation des appuis: simple, double, Encastrement,…..
6. Assignation des charges: nodale, uniforme, dynamique….
7. Lancer le calcul
8. Exploitation des résultats: déplacements, moments…….

Démarrage

1.Nouveau fichier



2.Definition des Unités

3.Remplir les information du projet

New Model Nouveau Modèle

Templates

New Model Initialization

- (•) Initialize Model from Defaults with Units
- ( ) Initialize Model from an Existing File

trés important

KN, m, C

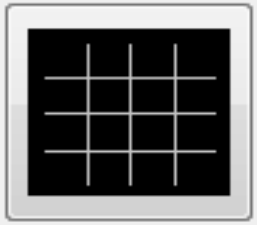
Unité SI

Project Information Information du Projet

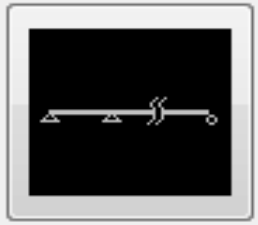
Modify/Show Information...

Select Template Selection du modèle

Blank
Vide



Grid Only
Cadrillage



Beam
Poutre

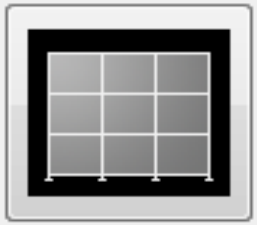
2D Trusses

3D Trusses

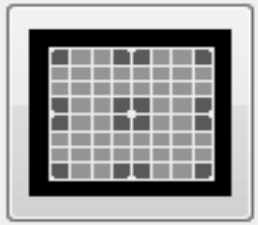
Ferme ou treillis 2D 3D

2D Frames
Portique 2D

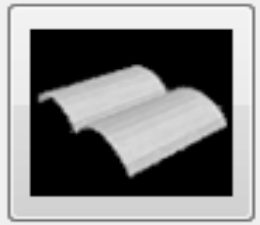
3D Frames
Portique 3D



Wall
Mur ou voile



Flat Slab
Dalle plate



Shells
Coque

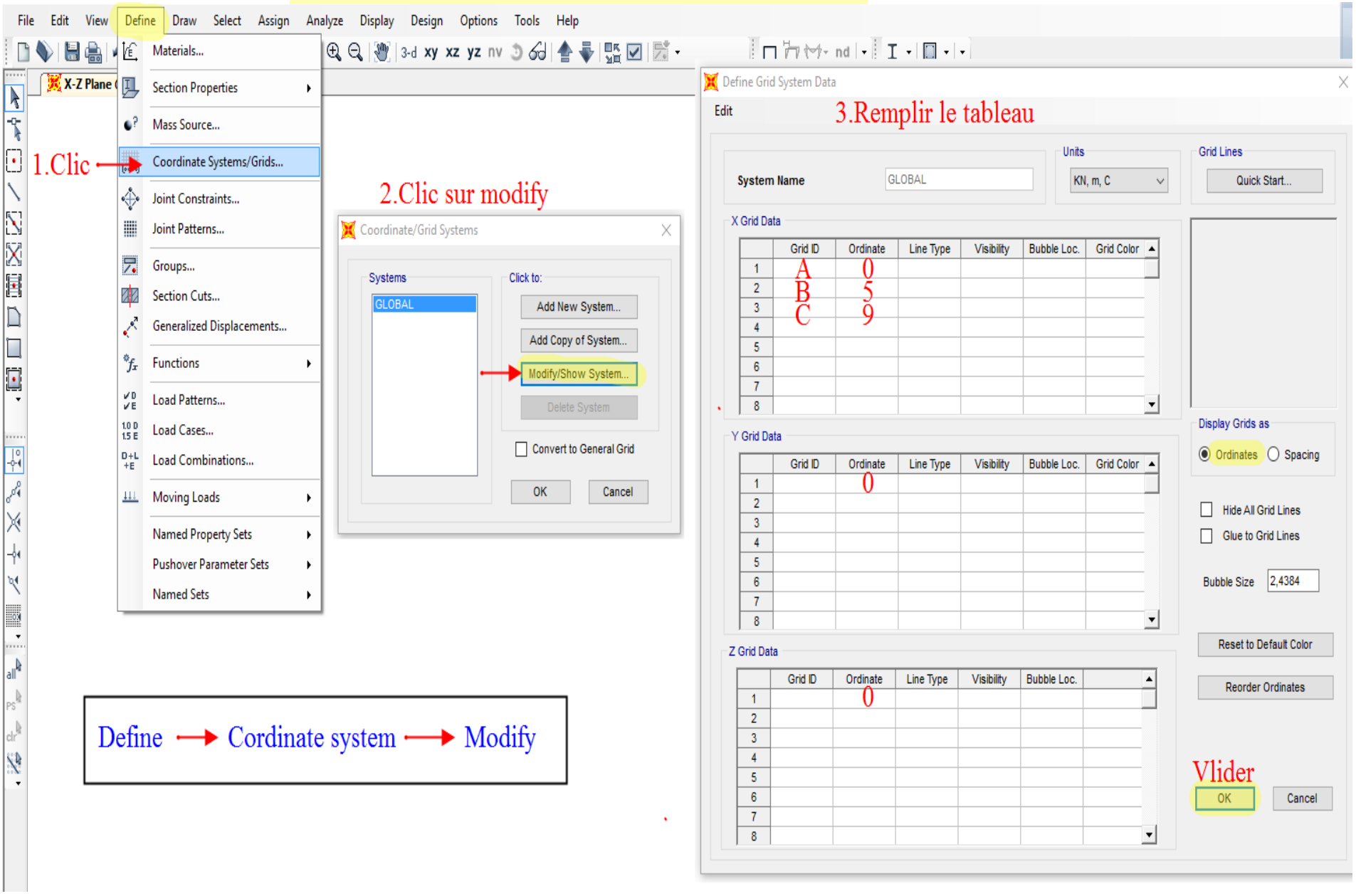
Staircases
Escalier

Storage Structures
Structures de Stockage

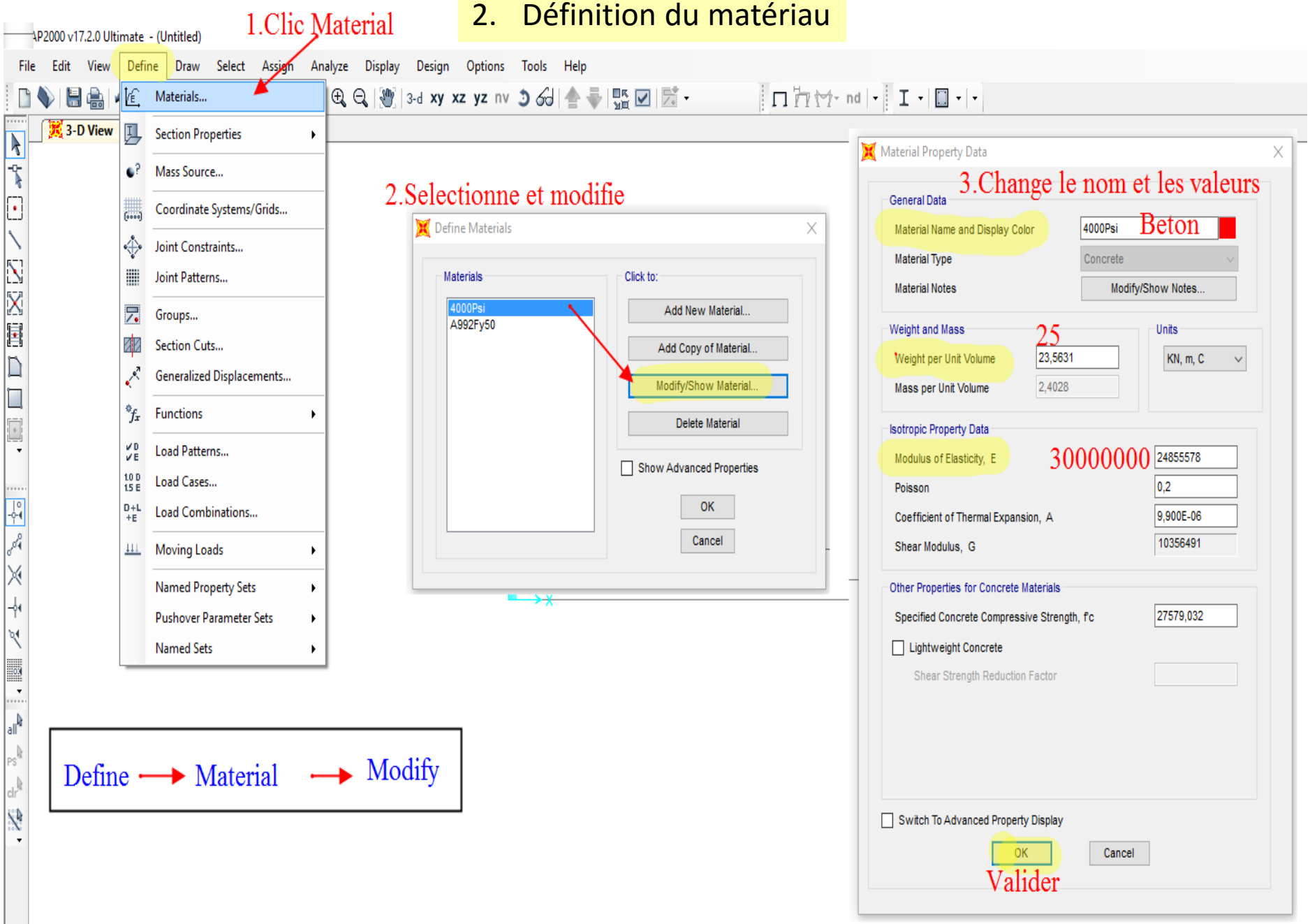
Underground Concrete
Beton sous terre

Solid Models
Solide

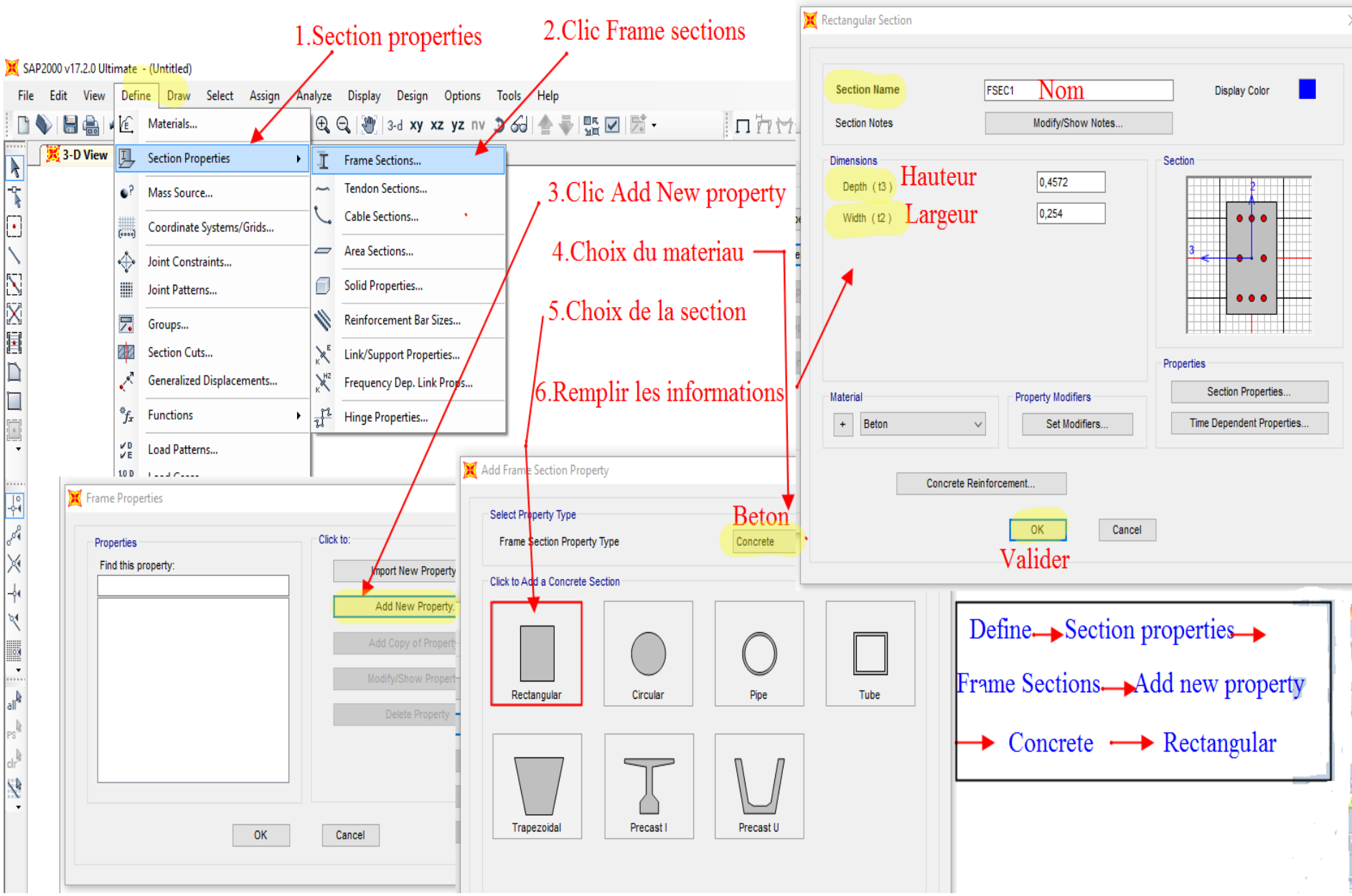
1. Définition de lignes de construction



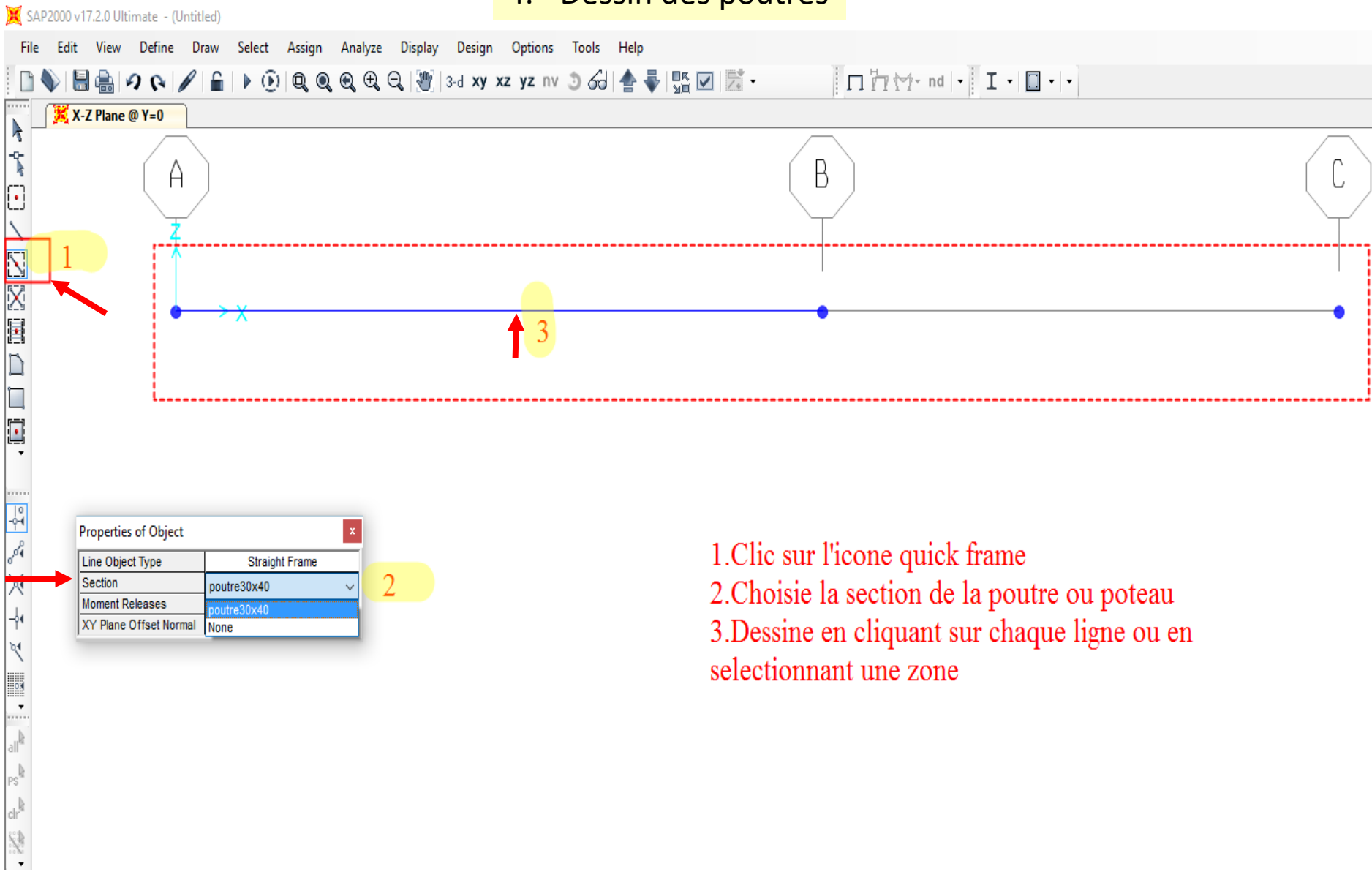
2. Définition du matériau



3. Définition de la section

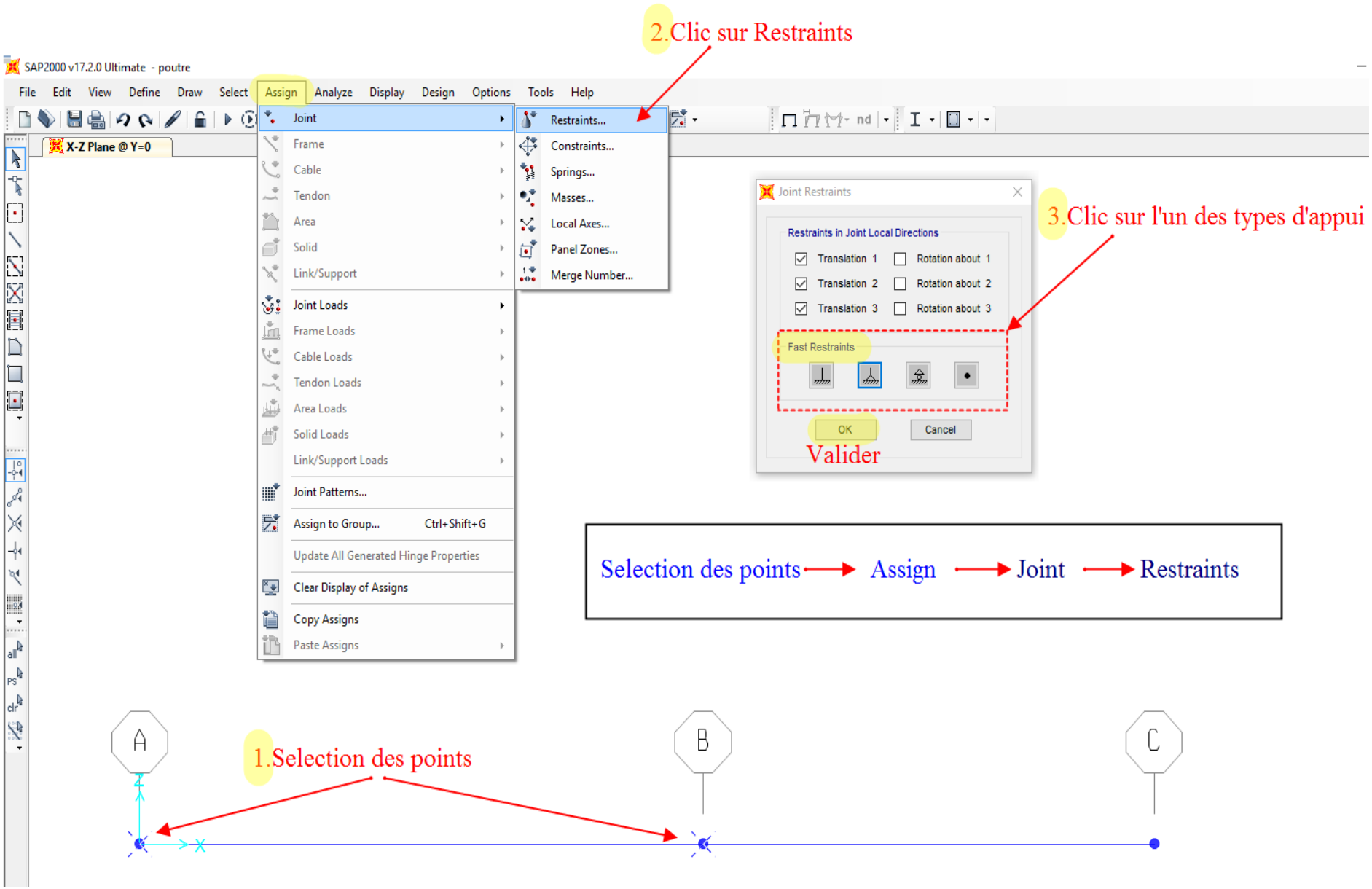


4. Dessin des poutres

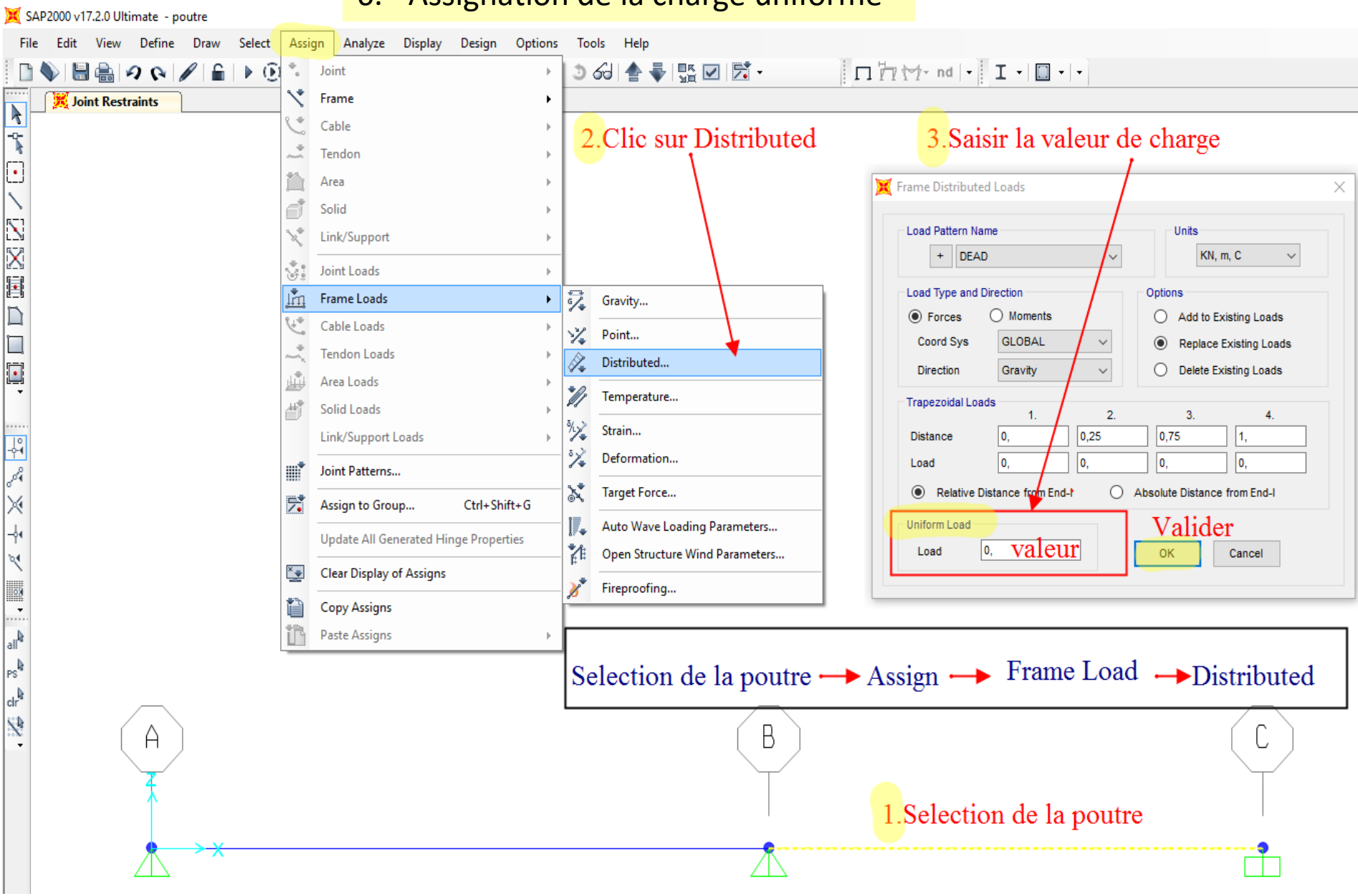


1.Clic sur l'icone quick frame
2.Choisie la section de la poutre ou poteau
3.Dessine en cliquant sur chaque ligne ou en selectionnant une zone

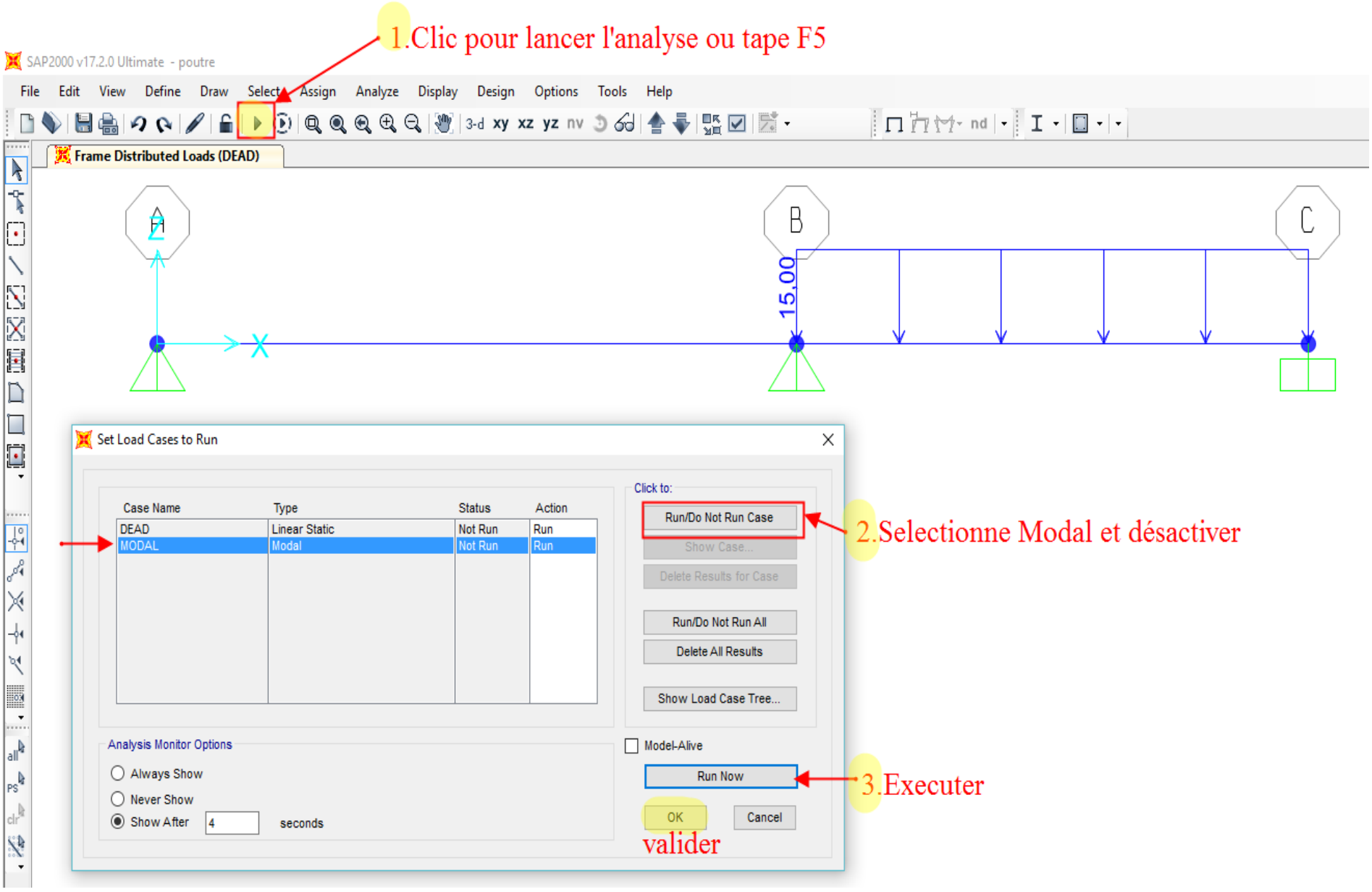
5. Assignation des appuis



6. Assignation de la charge uniforme



7. Lancer le calcul



8. Exploitation des résultats