

VirMat: 3D virtual microstructure creator

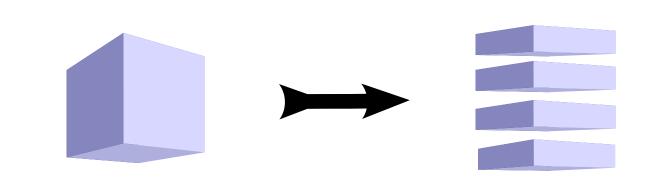
E. Gomes, K. Verbeken and L. Kestens

Department of Materials Science and Engineering, Ghent University Technologiepark 903, B-9052 Gent, Belgium

email: Edgar.Gomes@UGent.be

Introduction

3D measurements of real materials are possible but consume relatively high amount of financial and time resources.



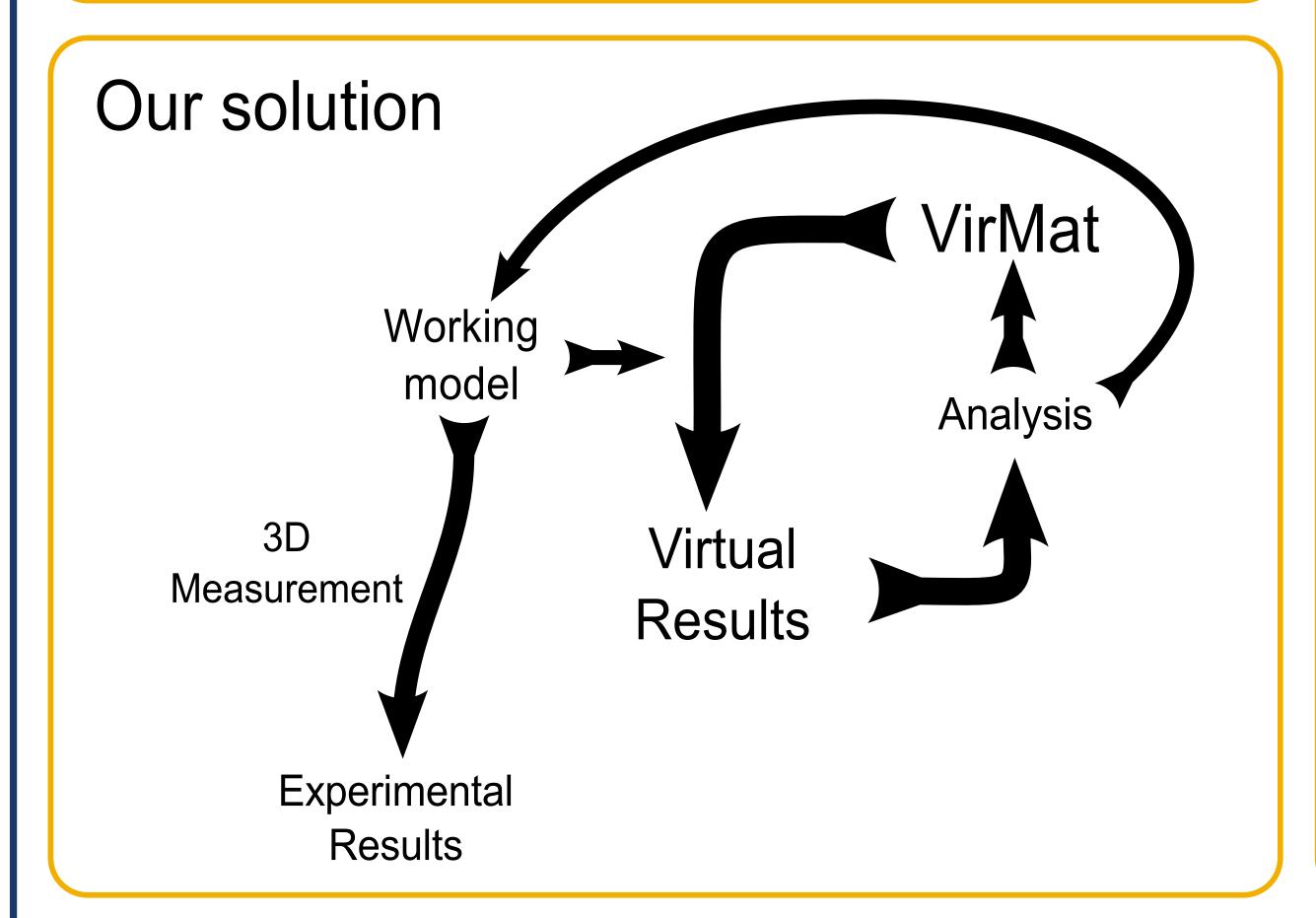
Virtual material is an abstraction that represents characteristics of a microstructure in a computer data structure.

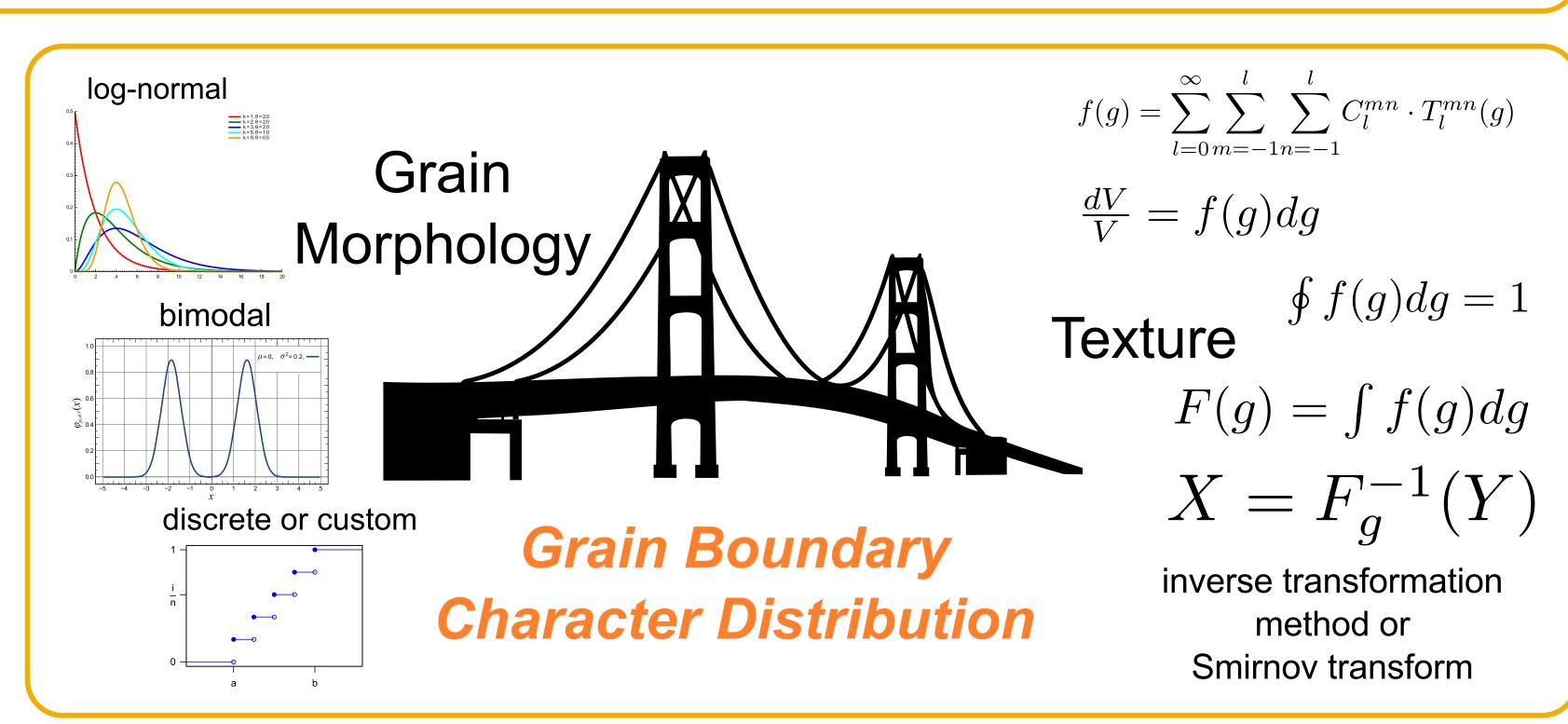


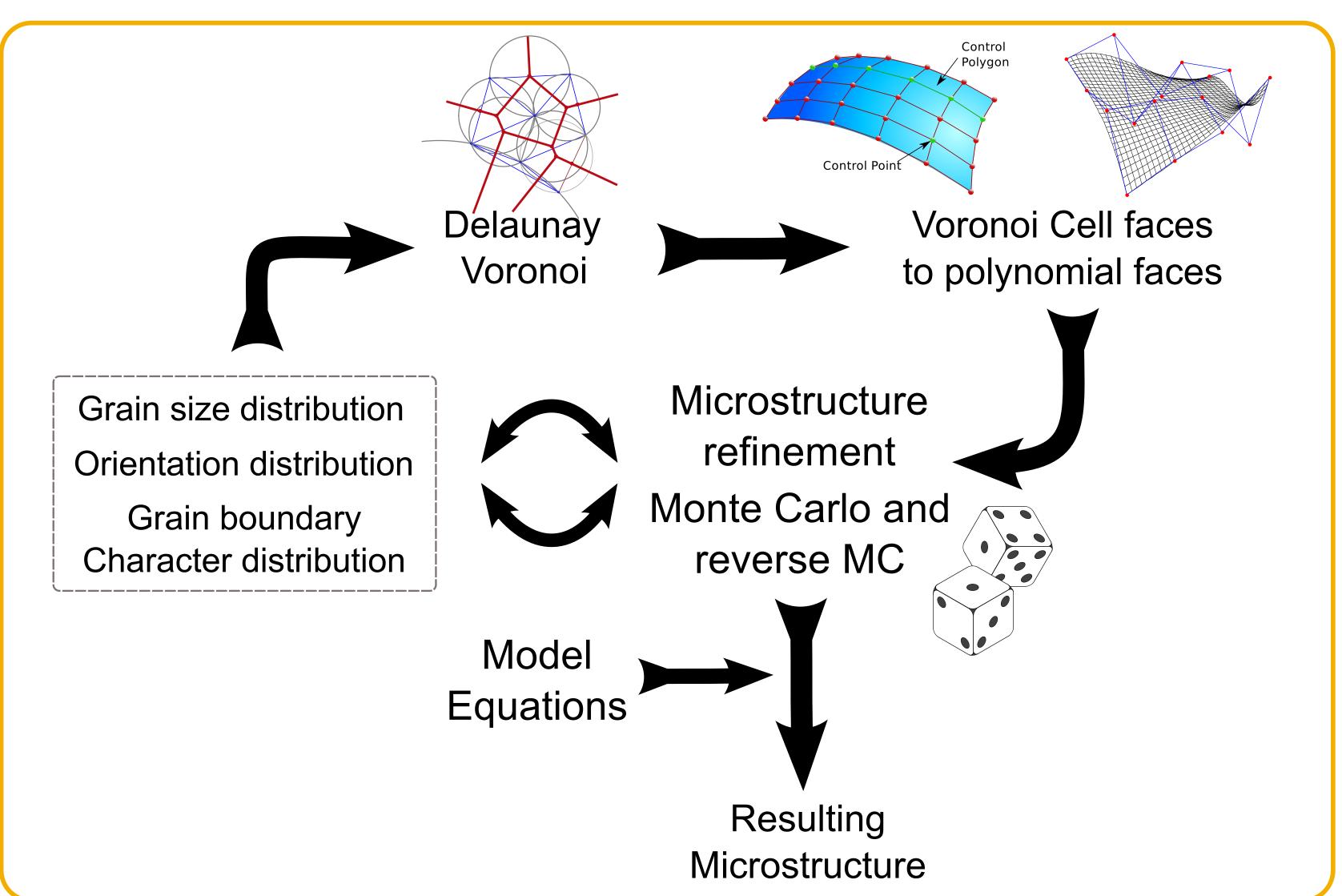
During decades and centuries our colleagues have decomposed and parametrized the microstructure in metals.

1010100101 010010101 1010010101 1010010101

Now we will collect this information and walk in the reverse direction. From a set of parameters we will recreate, virtually, a material.







Preliminary Results

