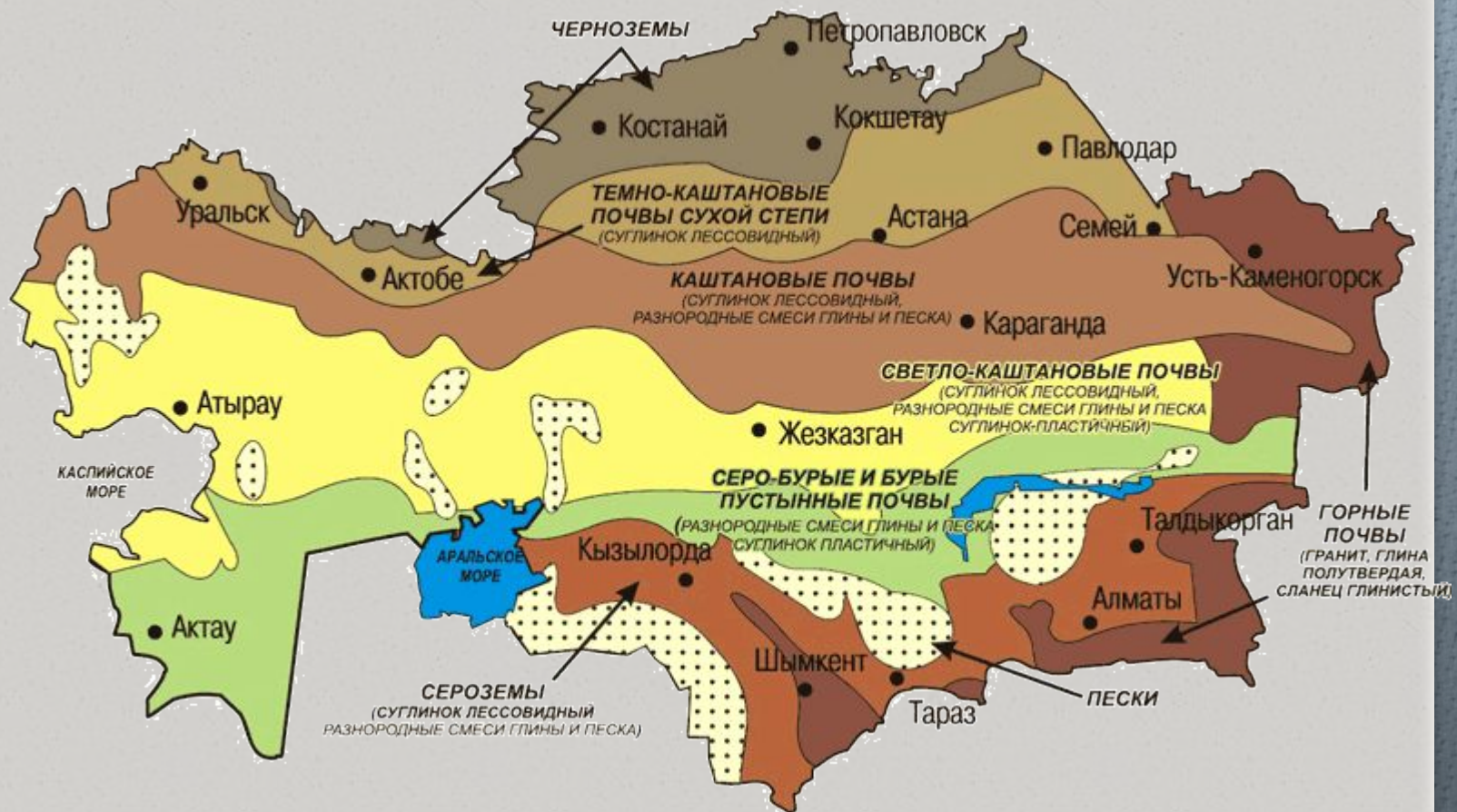


Soils of Kazakhstan

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Glossary

- 0 **Pedology** - science about an origin and development of soils, regularities of their distribution, ways of rational use and increase in fertility.
- 0 **Soil** - the upper layer of earth in which plants grow, a black or dark brown material typically consisting of a mixture of organic remains, clay, and rock particles.
- 0 **Humus** (Latin humus "earth, soil") — the main organic substance of the soil



Dokuchayev V. -
the founder of
science Pedology

Dokuchayev V. is
commonly
regarded as the
father of Soil
science



0 In Kazakhstan horizontal and vertical zonality of a soil cover is characteristic. В Казахстане характерна горизонтальная и вертикальная зональность почвенного покрова.

0 In a flat part of the republic **three main soil zones** are allocated:

0 -chernozems or black soils, (to the North from 52 °C. highway),

0 -dark-chestnut soils (between 48 and 52 °C. highway),

0 -brown and gray-brown desert soils (to the south of 48 °C. highway).

0 В равнинной части республики выделяются три главные почвенные зоны : черноземов или черные почвы, (к северу от 52° с. ш.), темно-каштановых почв (между 48 и 52° с. ш.), бурых и серо-бурых пустынных почв (южнее 48° с. ш.).

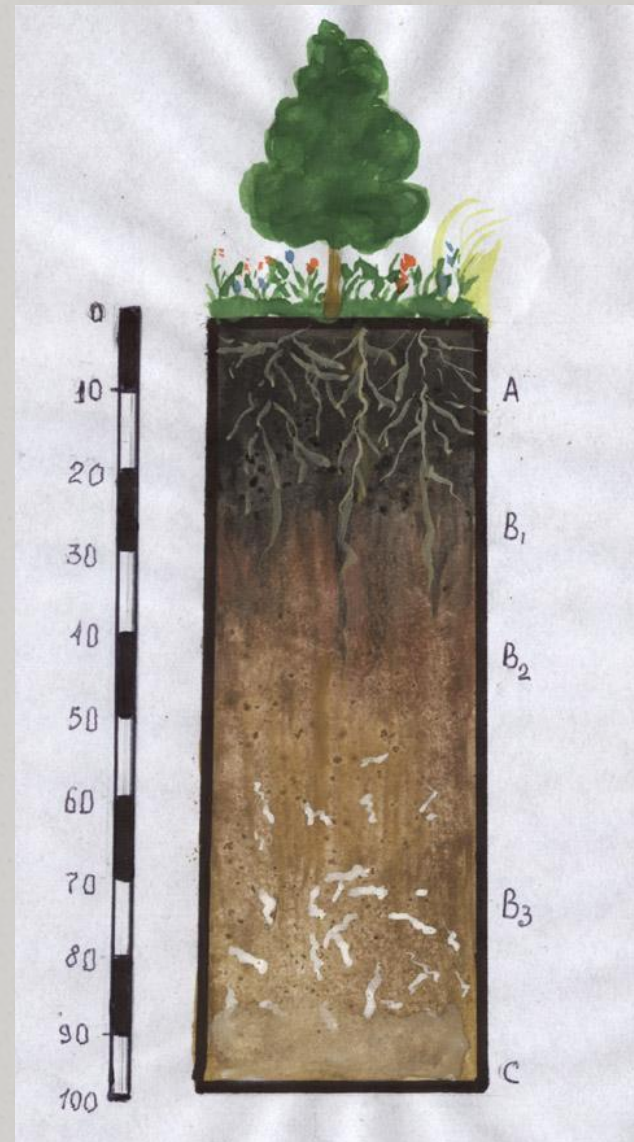
0 Black soils

0 Three subtypes are widespread in Kazakhstan: Lixivious, Ordinary, Southern.

0 В Казахстане распространены три подтипа: Выщелоченный, Обыкновенный, Южный.

0 Their area of 9,5% (25.5 million hectares), the maintenance of a humus from 8 to 4% are widespread in the north.

Распространены на севере, их площадь 9,5% (25.5 млн.га), содержание гумуса от 8 до 4 %.



0 **Dark-chestnut soils**

- 0 In Kazakhstan:
dark-chestnut soils
(moderately dry steppe),
typical chestnut soils (dry
steppe), **light brown soils**
(semi-deserts).

В Казахстане: темно-каштановые почвы (умеренно сухая степь), типичные каштановые почвы (сухая степь), светло-каштановые почвы (полупустыни).

- 0 Central Kazakhstan, North of Caspian Depression, plain of the East Kazakhstan region. 90,6 million hectares, 34%.



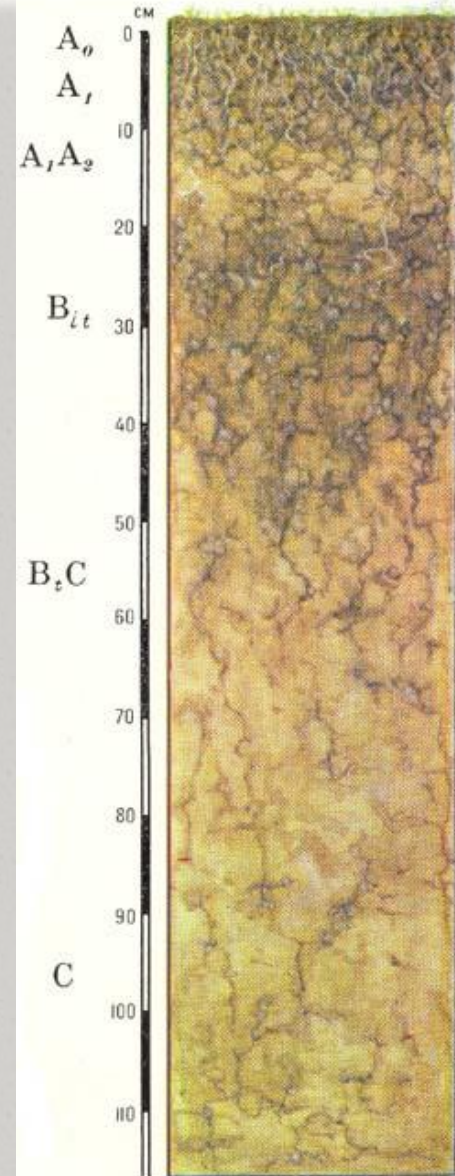
0 Brown and gray-brown desert soils

0 Are allocated: brown soils of the northern desert and gray-brown soils of the southern desert.

Выделяют: бурые почвы северной пустыни и серо-бурые почвы южной пустыни.

0 Occupy 44% of the territory (120 million hectares). 2-1% of a humus, is required an irrigation.

Занимают 44% территории (120 млн.га). 2-1 % гумуса, требуется орошение



Questions

- 0 What does it mean soil? (in English!)
- 0 Who was a founder of soil science?
- 0 Which types of soils do we have in Kazakhstan?
- 0 Which subtypes of black soil do you know?



**THANK YOU
FOR
ATTENTION!**