

Architecture - Bridges

Ian Firth (engineer, bridge designer); Bridges should be beautiful, TED talks [online], dostęp 10 listopad 2020], dostępny w Internecie :

https://www.ted.com/talks/ian_firth_bridges_should_be_beautiful

I. Discussion in groups :

1. Why do we need bridges?
2. What might be possible dangers of designing bridges?
3. Bridges should be beautiful. Do you agree?

II. Match the halves:

- | | |
|------------------|---------------------------|
| 1. essential for | a. in the dark |
| 2. symbols of | b. the price |
| 3. hint for | c. for granted |
| 4. make | d. material |
| 5. take sth | e. the limits |
| 6. pay | f. growth and development |
| 7. push | g. identity |
| 8. a leap | h. a difference |
| 9. durable | i. their location |

III. Match the words with translations.

- | | |
|----------------|-----------------|
| 1. obstacle | a. naprężenie |
| 2. capacity | b. promień |
| 3. essential | c. przeszkoda |
| 4. mediocre | d. struktura |
| 5. procurement | e. niezbędny |
| 6. tension | f. ładowność |
| 7. span | g. przeciętny |
| 8. fibre | h. zawieszenie |
| 9. beam | i. rozpiętość |
| 10. suspension | j. dostarczanie |

IV. Watch the video at

https://www.ted.com/talks/ian_firth_bridges_should_be_beautiful

and answer the questions:

1. Why does he mention the following bridges :

- Pont Du Gard
- Stari Most in Mostar
- suspension bridges in Peru

- d. Golden Gate Bridge
- e. Sydney Harbour Bridge
- f. Millau Viaduct
- g. Tacoma Narrows Bridge
- h. Severn Bridge
- i. Akashi Kaikyo Bridge
- j. Russky Bridge

V. Answer the questions:

1. What are three ways bridges can be categorised?
2. What does he mean by saying 'zero risk doesn't exist' ?
3. 'In the world of construction the changes seem positively glacial' - why?

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Mgr Nina Pantoł-Seredyńska